1. $\begin{bmatrix}-5.0 & 3.0 & -4.0\end{bmatrix} + \begin{bmatrix}2.0 & -1.0 & 1.0\end{bmatrix}$
2. $\begin{bmatrix}3.0 & 0.0 & -3.0\end{bmatrix}$ x $\begin{bmatrix}3.0 & -4.0 & -5.0\end{bmatrix}$
3. normalize $\begin{bmatrix}0.0 & 0.0 & 4.0\end{bmatrix}$
4. $\begin{bmatrix}-3.0 & 0.0 & 0.0\end{bmatrix} \cdot \begin{bmatrix}4.0 & 2.0 & 1.0\end{bmatrix}$
5. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}4.0 & 1.0 & 2.0\end{bmatrix}, \begin{bmatrix}4.0 & 4.0 & 2.0\end{bmatrix}$
6. $\begin{bmatrix}-5.0 & -2.0 & 1.0\end{bmatrix} + \begin{bmatrix}-2.0 & -3.0 & 0.0\end{bmatrix}$
7. $\begin{bmatrix}-4.0 & 0.0 & 1.0\end{bmatrix}$ x $\begin{bmatrix}0.0 & -5.0 & -2.0\end{bmatrix}$
8. What is the vector from $\begin{bmatrix}0.0 & -1.0 & -3.0\end{bmatrix}$ to $\begin{bmatrix}-5.0 & -3.0 & 2.0\end{bmatrix}$?
9. $\begin{bmatrix}4.0 & 2.0 & -1.0\end{bmatrix}$ x $\begin{bmatrix}-1.0 & -3.0 & 3.0\end{bmatrix}$
10. What is the relationship between the following two vectors? $\begin{bmatrix}1.0 & 4.0 & 4.0\end{bmatrix}, \begin{bmatrix}-5.0 & -2.0 & -5.0\end{bmatrix}$ a) They point in the same direction b) they point in opposite directions c) they are perpendicular
11. normalize $\begin{bmatrix}2.0 & -3.0 & 1.0\end{bmatrix}$
12. What is the vector from $\begin{bmatrix}3.0 & 4.0 & 1.0\end{bmatrix}$ to $\begin{bmatrix}-5.0 & 0.0 & -3.0\end{bmatrix}$?
13. normalize $\begin{bmatrix}-5.0 & -4.0 & 0.0\end{bmatrix}$
14. $\begin{bmatrix}-1.0 & -1.0 & 4.0\end{bmatrix} + \begin{bmatrix}0.0 & -1.0 & -2.0\end{bmatrix}$
15. $\begin{bmatrix}3.0 & 0.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & -1.0 & 3.0\end{bmatrix}$
16. $||\begin{bmatrix}2.0 & 1.0 & -3.0\end{bmatrix}||$
17. What is the relationship between the following two vectors? $\begin{bmatrix}-1.0 & 4.0 & 3.0\end{bmatrix}, \begin{bmatrix}-2.0 & 2.0 & 4.0\end{bmatrix}$ a) They point in the same direction b) they point in opposite directions c) they are perpendicular
18. $\begin{bmatrix}-1.0 & -3.0 & 1.0\end{bmatrix} \cdot \begin{bmatrix}-3.0 & -5.0 & 3.0\end{bmatrix}$
19. What is the vector from $\begin{bmatrix}4.0 & 2.0 & 3.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & 2.0 & -1.0\end{bmatrix}$?
20. normalize $\begin{bmatrix}-5.0 & -3.0 & 4.0\end{bmatrix}$
21. $\begin{bmatrix}-1.0 & 1.0 & 1.0\end{bmatrix} + \begin{bmatrix}-1.0 & -3.0 & -5.0\end{bmatrix}$
22. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}4.0 & -1.0 & -5.0\end{bmatrix}, \begin{bmatrix}4.0 & 0.0 & -3.0\end{bmatrix}$
23. $||\begin{bmatrix}0.0 & -2.0 & 1.0\end{bmatrix}||$
24. $\begin{bmatrix}0.0 & 0.0 & 0.0\end{bmatrix} \cdot \begin{bmatrix}1.0 & -5.0 & -4.0\end{bmatrix}$
25. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & 3.0 & 4.0\end{bmatrix}, \begin{bmatrix}-5.0 & 0.0 & -2.0\end{bmatrix}$ a) They point in the same direction b) they point in opposite directions c) they are perpendicular
26. $\begin{bmatrix}-3.0 & -5.0 & -5.0\end{bmatrix}$ x $\begin{bmatrix}-1.0 & -3.0 & 0.0\end{bmatrix}$

27. normalize $\begin{bmatrix} -3.0 & -2.0 & 4.0 \end{bmatrix}$

28. $\begin{bmatrix} -4.0 & 3.0 & 0.0 \end{bmatrix} + \begin{bmatrix} -3.0 & -3.0 & -1.0 \end{bmatrix}$

29. normalize $\begin{bmatrix} 2.0 & 2.0 & 3.0 \end{bmatrix}$

30. $||\begin{bmatrix} 0.0 & -5.0 & 3.0 \end{bmatrix}||$

31. normalize $\begin{bmatrix} 2.0 & 3.0 & -4.0 \end{bmatrix}$

32. normalize $\begin{bmatrix} 1.0 & 4.0 & -5.0 \end{bmatrix}$

33. What is the relationship between the following two vectors? $\begin{bmatrix} 2.0 & -1.0 & 1.0 \end{bmatrix}$, $\begin{bmatrix} -1.0 & -5.0 & -5.0 \end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

34. $||\begin{bmatrix} 2.0 & 4.0 & 3.0 \end{bmatrix}||$

35. normalize $\begin{bmatrix} 1.0 & -1.0 & 0.0 \end{bmatrix}$

36. normalize $\begin{bmatrix} 2.0 & 0.0 & 2.0 \end{bmatrix}$

37. What is the relationship between the following two vectors? $\begin{bmatrix} -5.0 & 4.0 & -5.0 \end{bmatrix}$, $\begin{bmatrix} 4.0 & 0.0 & -5.0 \end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

38. What is the angle between the following two vectors (in radians)? $\begin{bmatrix} 1.0 & 3.0 & 4.0 \end{bmatrix}$, $\begin{bmatrix} -2.0 & -2.0 & -2.0 \end{bmatrix}$

39. What is the vector from $\begin{bmatrix} 4.0 & -5.0 & -3.0 \end{bmatrix}$ to $\begin{bmatrix} 3.0 & 2.0 & 4.0 \end{bmatrix}$?

40. $\begin{bmatrix} 0.0 & -3.0 & -1.0 \end{bmatrix} \cdot \begin{bmatrix} -1.0 & 2.0 & -4.0 \end{bmatrix}$

41. normalize $\begin{bmatrix} 3.0 & 3.0 & -2.0 \end{bmatrix}$

42. $\begin{bmatrix} 0.0 & 1.0 & -1.0 \end{bmatrix} + \begin{bmatrix} -4.0 & 3.0 & -5.0 \end{bmatrix}$

43. normalize $\begin{bmatrix} -3.0 & -1.0 & 2.0 \end{bmatrix}$

44. $\begin{bmatrix} -4.0 & 2.0 & -2.0 \end{bmatrix} + \begin{bmatrix} 1.0 & -4.0 & -2.0 \end{bmatrix}$

45. $\begin{bmatrix} 3.0 & -1.0 & -2.0 \end{bmatrix} \cdot \begin{bmatrix} -4.0 & -2.0 & 3.0 \end{bmatrix}$

46. $\begin{bmatrix} -3.0 & 0.0 & -3.0 \end{bmatrix} \cdot \begin{bmatrix} 2.0 & 0.0 & 0.0 \end{bmatrix}$

47. normalize $\begin{bmatrix} -4.0 & 2.0 & 0.0 \end{bmatrix}$

48. $||\begin{bmatrix} -1.0 & 4.0 & -3.0 \end{bmatrix}||$

49. $||\begin{bmatrix} -5.0 & -1.0 & 0.0 \end{bmatrix}||$

50. normalize $\begin{bmatrix} 0.0 & 2.0 & 3.0 \end{bmatrix}$

51. $\begin{bmatrix} -4.0 & 3.0 & -1.0 \end{bmatrix}$ x $\begin{bmatrix} 4.0 & -1.0 & -4.0 \end{bmatrix}$

52. What is the vector from $\begin{bmatrix} -2.0 & -4.0 & 4.0 \end{bmatrix}$ to $\begin{bmatrix} -3.0 & 4.0 & -3.0 \end{bmatrix}$?

53. $\begin{bmatrix} -1.0 & -1.0 & 1.0 \end{bmatrix} \cdot \begin{bmatrix} -3.0 & 4.0 & -2.0 \end{bmatrix}$

54. $||\begin{bmatrix}4.0 & -5.0 & 3.0\end{bmatrix}||$

55. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & 0.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}0.0 & -3.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

56. normalize $\begin{bmatrix}-2.0 & -4.0 & -4.0\end{bmatrix}$

57. What is the vector from $\begin{bmatrix}2.0 & -1.0 & 4.0\end{bmatrix}$ to $\begin{bmatrix}1.0 & 3.0 & -1.0\end{bmatrix}$?

58. $||\begin{bmatrix}-5.0 & 2.0 & 2.0\end{bmatrix}||$

59. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-2.0 & -5.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & 4.0 & 0.0\end{bmatrix}$

60. $\begin{bmatrix}1.0 & -4.0 & 3.0\end{bmatrix} + \begin{bmatrix}4.0 & -2.0 & -2.0\end{bmatrix}$

61. $\begin{bmatrix}0.0 & 0.0 & -1.0\end{bmatrix} + \begin{bmatrix}-1.0 & 1.0 & 1.0\end{bmatrix}$

62. $\begin{bmatrix}-4.0 & -5.0 & 2.0\end{bmatrix}$ x $\begin{bmatrix}3.0 & -3.0 & -4.0\end{bmatrix}$

63. $\begin{bmatrix}1.0 & 0.0 & 3.0\end{bmatrix} + \begin{bmatrix}3.0 & 1.0 & 2.0\end{bmatrix}$

64. What is the vector from $\begin{bmatrix}1.0 & -3.0 & -3.0\end{bmatrix}$ to $\begin{bmatrix}1.0 & 1.0 & -1.0\end{bmatrix}$?

65. $\begin{bmatrix}2.0 & -2.0 & -1.0\end{bmatrix} + \begin{bmatrix}-4.0 & -3.0 & -1.0\end{bmatrix}$

66. What is the vector from $\begin{bmatrix}4.0 & 4.0 & 2.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & 4.0 & 1.0\end{bmatrix}$?

67. $\begin{bmatrix}-5.0 & 2.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & -4.0 & -1.0\end{bmatrix}$

68. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}1.0 & 3.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}0.0 & -3.0 & -1.0\end{bmatrix}$

69. $||\begin{bmatrix}-4.0 & -5.0 & -1.0\end{bmatrix}||$

70. What is the vector from $\begin{bmatrix}-2.0 & 4.0 & -3.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & 0.0 & -2.0\end{bmatrix}$?

71. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-4.0 & -2.0 & -3.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & -1.0 & 4.0\end{bmatrix}$

72. What is the vector from $\begin{bmatrix}-2.0 & 3.0 & 3.0\end{bmatrix}$ to $\begin{bmatrix}3.0 & -5.0 & 0.0\end{bmatrix}$?

73. $\begin{bmatrix}-1.0 & 2.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}-3.0 & 4.0 & 3.0\end{bmatrix}$

74. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}2.0 & 1.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & -1.0 & 0.0\end{bmatrix}$

75. $\begin{bmatrix}0.0 & 3.0 & -1.0\end{bmatrix} + \begin{bmatrix}4.0 & 1.0 & 2.0\end{bmatrix}$

76. $\begin{bmatrix}1.0 & -2.0 & -3.0\end{bmatrix} + \begin{bmatrix}1.0 & 2.0 & 1.0\end{bmatrix}$

77. normalize $\begin{bmatrix}-1.0 & 1.0 & 0.0\end{bmatrix}$

78. What is the vector from $\begin{bmatrix}1.0 & 1.0 & 1.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & 2.0 & 1.0\end{bmatrix}$?

79. What is the relationship between the following two vectors? $\begin{bmatrix}3.0 & 1.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & 2.0 & -4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

80. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}4.0 & -3.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}0.0 & -5.0 & 4.0\end{bmatrix}$

81. $||\begin{bmatrix}3.0 & -5.0 & -5.0\end{bmatrix}||$

82. What is the vector from $\begin{bmatrix}-1.0 & 3.0 & 1.0\end{bmatrix}$ to $\begin{bmatrix}-3.0 & 4.0 & -3.0\end{bmatrix}$?

83. $\begin{bmatrix}-3.0 & 4.0 & 1.0\end{bmatrix} + \begin{bmatrix}-1.0 & -3.0 & -4.0\end{bmatrix}$

84. $\begin{bmatrix}-4.0 & -3.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}-4.0 & 1.0 & 2.0\end{bmatrix}$

85. What is the relationship between the following two vectors? $\begin{bmatrix}1.0 & -5.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & -5.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

86. What is the relationship between the following two vectors? $\begin{bmatrix}-1.0 & -5.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}1.0 & 0.0 & 4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

87. $\begin{bmatrix}-4.0 & 1.0 & -5.0\end{bmatrix} + \begin{bmatrix}0.0 & 1.0 & -1.0\end{bmatrix}$

88. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-5.0 & 4.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & -3.0 & -5.0\end{bmatrix}$

89. What is the relationship between the following two vectors? $\begin{bmatrix}-1.0 & 2.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}3.0 & 0.0 & 4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

90. What is the relationship between the following two vectors? $\begin{bmatrix}0.0 & -3.0 & 1.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & -2.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

91. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-5.0 & 3.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}0.0 & 3.0 & 4.0\end{bmatrix}$

92. $\begin{bmatrix}4.0 & -4.0 & 2.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & 3.0 & 4.0\end{bmatrix}$

93. What is the vector from $\begin{bmatrix}-2.0 & -1.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}-4.0 & -5.0 & 1.0\end{bmatrix}$?

94. What is the vector from $\begin{bmatrix}-5.0 & 1.0 & 2.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & 2.0 & 1.0\end{bmatrix}$?

95. $\begin{bmatrix}-1.0 & 2.0 & 2.0\end{bmatrix}$ x $\begin{bmatrix}3.0 & 0.0 & 1.0\end{bmatrix}$

96. $\begin{bmatrix}0.0 & 1.0 & 2.0\end{bmatrix} + \begin{bmatrix}1.0 & 2.0 & 3.0\end{bmatrix}$

97. $\begin{bmatrix}-1.0 & 0.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & -2.0 & -3.0\end{bmatrix}$

98. What is the relationship between the following two vectors? $\begin{bmatrix}2.0 & -1.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}3.0 & -5.0 & 1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

99. $\begin{bmatrix}2.0 & -3.0 & -3.0\end{bmatrix}$ x $\begin{bmatrix}-1.0 & 1.0 & -3.0\end{bmatrix}$

100. $||\begin{bmatrix}3.0 & 2.0 & 1.0\end{bmatrix}||$

101. $\begin{bmatrix}4.0 & 1.0 & 3.0\end{bmatrix} + \begin{bmatrix}2.0 & -3.0 & -1.0\end{bmatrix}$

102. What is the vector from $\begin{bmatrix}-3.0 & 1.0 & 1.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & -3.0 & 2.0\end{bmatrix}$?

103. $\begin{bmatrix}4.0 & 1.0 & -5.0\end{bmatrix}$ x $\begin{bmatrix}-2.0 & -1.0 & 4.0\end{bmatrix}$

104. What is the vector from $\begin{bmatrix}-3.0 & 1.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}-3.0 & 2.0 & -3.0\end{bmatrix}$?

105. $\begin{bmatrix}-5.0 & -3.0 & -3.0\end{bmatrix} + \begin{bmatrix}-3.0 & -1.0 & 0.0\end{bmatrix}$

106. $\begin{bmatrix}4.0 & -3.0 & 0.0\end{bmatrix} \cdot \begin{bmatrix}4.0 & 0.0 & -4.0\end{bmatrix}$

107. $\begin{bmatrix}1.0 & -3.0 & 2.0\end{bmatrix}$ x $\begin{bmatrix}-4.0 & -4.0 & 2.0\end{bmatrix}$

108. $\begin{bmatrix}-3.0 & -2.0 & -4.0\end{bmatrix} \cdot \begin{bmatrix}1.0 & -5.0 & 2.0\end{bmatrix}$

109. normalize $\begin{bmatrix}1.0 & 3.0 & -1.0\end{bmatrix}$

110. $\begin{bmatrix}0.0 & -4.0 & -5.0\end{bmatrix} + \begin{bmatrix}-4.0 & -1.0 & 0.0\end{bmatrix}$

111. $\begin{bmatrix}2.0 & 1.0 & -3.0\end{bmatrix}$ x $\begin{bmatrix}3.0 & -5.0 & -2.0\end{bmatrix}$

112. $||\begin{bmatrix}-3.0 & 2.0 & -5.0\end{bmatrix}||$

113. normalize $\begin{bmatrix}0.0 & 0.0 & 1.0\end{bmatrix}$

114. What is the vector from $\begin{bmatrix}-4.0 & 2.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}-3.0 & 0.0 & -1.0\end{bmatrix}$?

115. What is the relationship between the following two vectors? $\begin{bmatrix}-5.0 & -2.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & -5.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

116. $\begin{bmatrix}-5.0 & 1.0 & 4.0\end{bmatrix} \cdot \begin{bmatrix}-2.0 & 1.0 & 0.0\end{bmatrix}$

117. normalize $\begin{bmatrix}-4.0 & -3.0 & 3.0\end{bmatrix}$

118. normalize $\begin{bmatrix}-5.0 & 2.0 & 0.0\end{bmatrix}$

119. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}4.0 & -5.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}3.0 & -4.0 & 3.0\end{bmatrix}$

120. What is the vector from $\begin{bmatrix}4.0 & 2.0 & 4.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & -2.0 & 2.0\end{bmatrix}$?

121. normalize $\begin{bmatrix}3.0 & 4.0 & 2.0\end{bmatrix}$

122. $\begin{bmatrix}1.0 & -1.0 & 4.0\end{bmatrix}$ x $\begin{bmatrix}-5.0 & 0.0 & 0.0\end{bmatrix}$

123. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-2.0 & 3.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}0.0 & -4.0 & -2.0\end{bmatrix}$

124. normalize $\begin{bmatrix}2.0 & -1.0 & 1.0\end{bmatrix}$

125. $\begin{bmatrix}4.0 & 1.0 & 3.0\end{bmatrix} \cdot \begin{bmatrix}4.0 & -4.0 & 3.0\end{bmatrix}$

126. What is the relationship between the following two vectors? $\begin{bmatrix}-3.0 & 1.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}3.0 & 1.0 & -1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

127. $\begin{bmatrix}-5.0 & -2.0 & 4.0\end{bmatrix}$ x $\begin{bmatrix}2.0 & -1.0 & 3.0\end{bmatrix}$

128. normalize $\begin{bmatrix}-2.0 & -2.0 & -3.0\end{bmatrix}$

129. $\begin{bmatrix}-1.0 & 0.0 & 2.0\end{bmatrix} + \begin{bmatrix}0.0 & -5.0 & -4.0\end{bmatrix}$

130. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & -1.0 & 1.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & 1.0 & 0.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

131. $\begin{bmatrix}1.0 & 4.0 & -5.0\end{bmatrix} + \begin{bmatrix}-1.0 & 2.0 & 2.0\end{bmatrix}$

132. normalize $\begin{bmatrix}-4.0 & 2.0 & 4.0\end{bmatrix}$

133. normalize $\begin{bmatrix}-3.0 & -4.0 & -1.0\end{bmatrix}$

134. normalize $\begin{bmatrix}-3.0 & -5.0 & -5.0\end{bmatrix}$

135. $\begin{bmatrix}2.0 & 3.0 & 3.0\end{bmatrix}$ x $\begin{bmatrix}-4.0 & 2.0 & -3.0\end{bmatrix}$

136. $\begin{bmatrix}-1.0 & 3.0 & -3.0\end{bmatrix} + \begin{bmatrix}1.0 & -4.0 & -1.0\end{bmatrix}$

137. $\begin{bmatrix}-3.0 & 2.0 & -2.0\end{bmatrix} + \begin{bmatrix}-5.0 & -1.0 & 4.0\end{bmatrix}$

138. $||\begin{bmatrix}2.0 & -2.0 & 0.0\end{bmatrix}||$

139. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & 1.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & -3.0 & -2.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

140. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & -5.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & 1.0 & 1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

141. $\begin{bmatrix}4.0 & 3.0 & 0.0\end{bmatrix} + \begin{bmatrix}3.0 & -3.0 & 2.0\end{bmatrix}$

142. $||\begin{bmatrix}0.0 & -2.0 & -2.0\end{bmatrix}||$

143. $||\begin{bmatrix}-3.0 & -1.0 & -5.0\end{bmatrix}||$

144. $\begin{bmatrix}-4.0 & 4.0 & 3.0\end{bmatrix} + \begin{bmatrix}-5.0 & 3.0 & -4.0\end{bmatrix}$

145. $\begin{bmatrix}2.0 & -1.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}-5.0 & -3.0 & -4.0\end{bmatrix}$

146. $\begin{bmatrix}-4.0 & 4.0 & 3.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & 1.0 & 1.0\end{bmatrix}$

147. $\begin{bmatrix}-5.0 & 0.0 & -5.0\end{bmatrix}$ x $\begin{bmatrix}-2.0 & -1.0 & -2.0\end{bmatrix}$

148. What is the relationship between the following two vectors? $\begin{bmatrix}1.0 & 3.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & -1.0 & 4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

149. $\begin{bmatrix}3.0 & -5.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & 4.0 & 4.0\end{bmatrix}$

150. $\begin{bmatrix}-2.0 & 0.0 & -2.0\end{bmatrix} + \begin{bmatrix}2.0 & -2.0 & -1.0\end{bmatrix}$

151. $\begin{bmatrix}-1.0 & 4.0 & -1.0\end{bmatrix}$ x $\begin{bmatrix}1.0 & -5.0 & -3.0\end{bmatrix}$

152. What is the relationship between the following two vectors? $\begin{bmatrix}4.0 & -5.0 & -3.0\end{bmatrix}$, $\begin{bmatrix}2.0 & -5.0 & 1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

153. What is the vector from $\begin{bmatrix}2.0 & -1.0 & 0.0\end{bmatrix}$ to $\begin{bmatrix}1.0 & 3.0 & -1.0\end{bmatrix}$?

154. normalize $\begin{bmatrix}2.0 & -4.0 & 1.0\end{bmatrix}$

155. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & 0.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & -4.0 & 4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

156. What is the relationship between the following two vectors? $\begin{bmatrix}-3.0 & 0.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & 0.0 & -5.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

157. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-5.0 & 4.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}1.0 & -5.0 & 1.0\end{bmatrix}$

158. $\begin{bmatrix}0.0 & 3.0 & 4.0\end{bmatrix} + \begin{bmatrix}-1.0 & 3.0 & -5.0\end{bmatrix}$

159. normalize $\begin{bmatrix}-5.0 & -3.0 & 0.0\end{bmatrix}$

160. $\begin{bmatrix}-4.0 & 0.0 & 3.0\end{bmatrix}$ x $\begin{bmatrix}-2.0 & -1.0 & -2.0\end{bmatrix}$

161. What is the vector from $\begin{bmatrix}4.0 & 4.0 & 1.0\end{bmatrix}$ to $\begin{bmatrix}3.0 & -5.0 & -1.0\end{bmatrix}$?

162. What is the vector from $\begin{bmatrix}4.0 & 3.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}0.0 & 4.0 & 0.0\end{bmatrix}$?

163. $\begin{bmatrix}-3.0 & -1.0 & 2.0\end{bmatrix} + \begin{bmatrix}4.0 & 1.0 & 4.0\end{bmatrix}$

164. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}0.0 & -3.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & 3.0 & 4.0\end{bmatrix}$

165. What is the vector from $\begin{bmatrix}4.0 & -4.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & 4.0 & 1.0\end{bmatrix}$?

166. $||\begin{bmatrix}-4.0 & -5.0 & -4.0\end{bmatrix}||$

167. normalize $\begin{bmatrix}-5.0 & -1.0 & 1.0\end{bmatrix}$

168. normalize $\begin{bmatrix}3.0 & 0.0 & 4.0\end{bmatrix}$

169. $\begin{bmatrix}3.0 & 3.0 & 2.0\end{bmatrix}$ x $\begin{bmatrix}2.0 & -2.0 & 1.0\end{bmatrix}$

170. What is the relationship between the following two vectors? $\begin{bmatrix}1.0 & 2.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & 0.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

171. What is the relationship between the following two vectors? $\begin{bmatrix}2.0 & -1.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}4.0 & 3.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

172. $||\begin{bmatrix}-5.0 & 1.0 & 1.0\end{bmatrix}||$

173. $\begin{bmatrix}-1.0 & 1.0 & -3.0\end{bmatrix} \cdot \begin{bmatrix}-2.0 & 3.0 & 4.0\end{bmatrix}$

174. $||\begin{bmatrix}1.0 & -4.0 & -5.0\end{bmatrix}||$

175. $\begin{bmatrix}0.0 & -1.0 & -5.0\end{bmatrix} + \begin{bmatrix}4.0 & -4.0 & 2.0\end{bmatrix}$

176. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}4.0 & -2.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}4.0 & 4.0 & -4.0\end{bmatrix}$

177. What is the vector from $\begin{bmatrix}1.0 & -5.0 & 3.0\end{bmatrix}$ to $\begin{bmatrix}-3.0 & -1.0 & -5.0\end{bmatrix}$?

178. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-2.0 & 3.0 & 1.0\end{bmatrix}$, $\begin{bmatrix}0.0 & 2.0 & -2.0\end{bmatrix}$

179. $\begin{bmatrix}2.0 & 3.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}3.0 & -5.0 & -4.0\end{bmatrix}$

180. $\begin{bmatrix}4.0 & 4.0 & 4.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & 0.0 & 0.0\end{bmatrix}$

181. What is the relationship between the following two vectors? $\begin{bmatrix}1.0 & -4.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}1.0 & 4.0 & -5.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

182. normalize $\begin{bmatrix}4.0 & -1.0 & 2.0\end{bmatrix}$

183. What is the vector from $\begin{bmatrix}-1.0 & 2.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}4.0 & -2.0 & -4.0\end{bmatrix}$?

184. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}1.0 & -2.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & -5.0 & -1.0\end{bmatrix}$

185. $\begin{bmatrix}-4.0 & -3.0 & 0.0\end{bmatrix}$ x $\begin{bmatrix}-5.0 & 4.0 & 2.0\end{bmatrix}$

186. $\begin{bmatrix}-4.0 & 1.0 & -1.0\end{bmatrix}$ x $\begin{bmatrix}0.0 & -4.0 & -5.0\end{bmatrix}$

187. $\begin{bmatrix}2.0 & 4.0 & 0.0\end{bmatrix}$ x $\begin{bmatrix}-4.0 & -1.0 & 0.0\end{bmatrix}$

188. $\begin{bmatrix}4.0 & 2.0 & 2.0\end{bmatrix}$ x $\begin{bmatrix}-2.0 & -1.0 & -4.0\end{bmatrix}$

189. $\begin{bmatrix}-3.0 & 4.0 & 4.0\end{bmatrix}$ x $\begin{bmatrix}-2.0 & 0.0 & -1.0\end{bmatrix}$

190. normalize $\begin{bmatrix}3.0 & 1.0 & -4.0\end{bmatrix}$

191. What is the vector from $\begin{bmatrix}1.0 & -2.0 & 3.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & -3.0 & 2.0\end{bmatrix}$?

192. $\begin{bmatrix}-2.0 & 1.0 & -3.0\end{bmatrix} + \begin{bmatrix}2.0 & -3.0 & 3.0\end{bmatrix}$

193. $\begin{bmatrix}-3.0 & -3.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & -5.0 & 2.0\end{bmatrix}$

194. $\begin{bmatrix}2.0 & -1.0 & -3.0\end{bmatrix} + \begin{bmatrix}-3.0 & 0.0 & 4.0\end{bmatrix}$

195. What is the relationship between the following two vectors? $\begin{bmatrix}-1.0 & 4.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}2.0 & -1.0 & 4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

196. $\begin{bmatrix}-1.0 & 0.0 & -3.0\end{bmatrix}$ x $\begin{bmatrix}1.0 & -3.0 & -3.0\end{bmatrix}$

197. What is the vector from $\begin{bmatrix}-5.0 & 2.0 & -4.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & 0.0 & -1.0\end{bmatrix}$?

198. What is the relationship between the following two vectors? $\begin{bmatrix}2.0 & -1.0 & -3.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & 1.0 & 2.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

199. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}3.0 & 0.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & -3.0 & -5.0\end{bmatrix}$

200. $\begin{bmatrix}0.0 & -3.0 & 2.0\end{bmatrix} + \begin{bmatrix}4.0 & -4.0 & 1.0\end{bmatrix}$

201. What is the vector from $\begin{bmatrix}-3.0 & 2.0 & 4.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & -5.0 & -1.0\end{bmatrix}$?

202. $||\begin{bmatrix}3.0 & -4.0 & 3.0\end{bmatrix}||$

203. $||\begin{bmatrix}-5.0 & 4.0 & 4.0\end{bmatrix}||$

204. $\begin{bmatrix}-4.0 & 0.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & 0.0 & 0.0\end{bmatrix}$

205. $\begin{bmatrix}3.0 & 1.0 & 1.0\end{bmatrix} \cdot \begin{bmatrix}4.0 & 4.0 & 0.0\end{bmatrix}$

206. normalize $\begin{bmatrix}-2.0 & 2.0 & -3.0\end{bmatrix}$

207. What is the vector from $\begin{bmatrix}-2.0 & 4.0 & -1.0\end{bmatrix}$ to $\begin{bmatrix}4.0 & 0.0 & -1.0\end{bmatrix}$?

208. $\begin{bmatrix}-1.0 & 0.0 & 0.0\end{bmatrix}$ x $\begin{bmatrix}-3.0 & -4.0 & 2.0\end{bmatrix}$

209. $\begin{bmatrix}2.0 & 2.0 & 2.0\end{bmatrix}$ x $\begin{bmatrix}-5.0 & -5.0 & 1.0\end{bmatrix}$

210. $\begin{bmatrix}4.0 & 0.0 & -4.0\end{bmatrix} + \begin{bmatrix}-4.0 & -2.0 & 1.0\end{bmatrix}$

211. $\begin{bmatrix}2.0 & 1.0 & 3.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & 0.0 & -5.0\end{bmatrix}$

212. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & 0.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & -1.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

213. What is the vector from $\begin{bmatrix}-1.0 & -2.0 & 2.0\end{bmatrix}$ to $\begin{bmatrix}1.0 & -4.0 & -1.0\end{bmatrix}$?

214. $\begin{bmatrix}-3.0 & 4.0 & 4.0\end{bmatrix} + \begin{bmatrix}-3.0 & -3.0 & 1.0\end{bmatrix}$

215. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}0.0 & -5.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}0.0 & 0.0 & 3.0\end{bmatrix}$

216. normalize $\begin{bmatrix}-1.0 & 0.0 & -1.0\end{bmatrix}$

217. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & 2.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}2.0 & 1.0 & 1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

218. $\begin{bmatrix}-1.0 & -4.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}-5.0 & -5.0 & 0.0\end{bmatrix}$

219. $\begin{bmatrix}2.0 & -4.0 & -4.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & -4.0 & 1.0\end{bmatrix}$

220. What is the relationship between the following two vectors? $\begin{bmatrix}-3.0 & 4.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}4.0 & 0.0 & -5.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

221. $\begin{bmatrix}4.0 & -3.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}1.0 & 1.0 & -2.0\end{bmatrix}$

222. $\begin{bmatrix}-3.0 & 1.0 & 2.0\end{bmatrix}$ x $\begin{bmatrix}1.0 & -3.0 & -4.0\end{bmatrix}$

223. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & -1.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}2.0 & 1.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

224. $\begin{bmatrix}0.0 & -4.0 & -3.0\end{bmatrix}$ x $\begin{bmatrix}-3.0 & 0.0 & 4.0\end{bmatrix}$

225. normalize $\begin{bmatrix}4.0 & -1.0 & 0.0\end{bmatrix}$

226. What is the relationship between the following two vectors? $\begin{bmatrix}-1.0 & 4.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & -4.0 & 4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

227. What is the vector from $\begin{bmatrix}-1.0 & 1.0 & 2.0\end{bmatrix}$ to $\begin{bmatrix}3.0 & 2.0 & -3.0\end{bmatrix}$?

228. $\begin{bmatrix}-5.0 & 3.0 & -2.0\end{bmatrix} + \begin{bmatrix}1.0 & 3.0 & -4.0\end{bmatrix}$

229. normalize $\begin{bmatrix}4.0 & 0.0 & 2.0\end{bmatrix}$

230. $||\begin{bmatrix}-3.0 & -4.0 & -3.0\end{bmatrix}||$

231. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}4.0 & -5.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & 2.0 & -1.0\end{bmatrix}$

232. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}1.0 & 4.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}3.0 & -1.0 & -4.0\end{bmatrix}$

233. $||\begin{bmatrix}-2.0 & 1.0 & 0.0\end{bmatrix}||$

234. $\begin{bmatrix}0.0 & 3.0 & 0.0\end{bmatrix} + \begin{bmatrix}-5.0 & -2.0 & 1.0\end{bmatrix}$

235. $\begin{bmatrix}3.0 & -4.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}3.0 & 0.0 & -4.0\end{bmatrix}$

236. What is the vector from $\begin{bmatrix}0.0 & 3.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}-3.0 & -2.0 & 3.0\end{bmatrix}$?

237. $\begin{bmatrix}0.0 & -4.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & -4.0 & -1.0\end{bmatrix}$

238. $||\begin{bmatrix}1.0 & 0.0 & -4.0\end{bmatrix}||$

239. normalize $\begin{bmatrix}-1.0 & -2.0 & 1.0\end{bmatrix}$

240. normalize $\begin{bmatrix}-5.0 & -3.0 & 3.0\end{bmatrix}$

241. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}0.0 & -4.0 & -3.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & -5.0 & -3.0\end{bmatrix}$

242. normalize $\begin{bmatrix}0.0 & -3.0 & 1.0\end{bmatrix}$

243. $\begin{bmatrix}4.0 & 3.0 & -4.0\end{bmatrix} + \begin{bmatrix}-4.0 & -1.0 & 2.0\end{bmatrix}$

244. normalize $\begin{bmatrix}3.0 & -5.0 & -1.0\end{bmatrix}$

245. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}0.0 & 3.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & 1.0 & -2.0\end{bmatrix}$

246. normalize $\begin{bmatrix}1.0 & 3.0 & 3.0\end{bmatrix}$

247. What is the relationship between the following two vectors? $\begin{bmatrix}2.0 & 2.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & -1.0 & -2.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

248. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-5.0 & 1.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & 0.0 & -1.0\end{bmatrix}$

249. What is the vector from $\begin{bmatrix}-1.0 & -2.0 & 1.0\end{bmatrix}$ to $\begin{bmatrix}-4.0 & -5.0 & 1.0\end{bmatrix}$?

250. $\begin{bmatrix}0.0 & 0.0 & 4.0\end{bmatrix} \cdot \begin{bmatrix}-3.0 & -3.0 & 3.0\end{bmatrix}$

251. What is the vector from $\begin{bmatrix}-5.0 & 4.0 & -2.0\end{bmatrix}$ to $\begin{bmatrix}-3.0 & -3.0 & -2.0\end{bmatrix}$?

252. $\begin{bmatrix}-2.0 & 3.0 & 1.0\end{bmatrix}$ x $\begin{bmatrix}4.0 & 3.0 & 0.0\end{bmatrix}$

253. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}0.0 & -4.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}3.0 & -4.0 & 0.0\end{bmatrix}$

254. normalize $\begin{bmatrix}4.0 & 0.0 & -4.0\end{bmatrix}$

255. $||\begin{bmatrix}-1.0 & -3.0 & 1.0\end{bmatrix}||$

256. $\begin{bmatrix}4.0 & 1.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & 0.0 & -4.0\end{bmatrix}$

257. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & -3.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & -1.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

258. $\begin{bmatrix}0.0 & -2.0 & 1.0\end{bmatrix} \cdot \begin{bmatrix}1.0 & 3.0 & 4.0\end{bmatrix}$

259. normalize $\begin{bmatrix}3.0 & -4.0 & 3.0\end{bmatrix}$

260. $\begin{bmatrix}-4.0 & -1.0 & 2.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & -4.0 & -4.0\end{bmatrix}$

261. $\begin{bmatrix}-4.0 & -1.0 & 4.0\end{bmatrix} + \begin{bmatrix}0.0 & 2.0 & 0.0\end{bmatrix}$

262. $\begin{bmatrix}-1.0 & 1.0 & 3.0\end{bmatrix}$ x $\begin{bmatrix}-5.0 & 0.0 & -3.0\end{bmatrix}$

263. $\begin{bmatrix}0.0 & 1.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & -3.0 & -4.0\end{bmatrix}$

264. normalize $\begin{bmatrix}-5.0 & 0.0 & 0.0\end{bmatrix}$

265. $\begin{bmatrix}-3.0 & -3.0 & 0.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & 4.0 & 2.0\end{bmatrix}$

266. $\begin{bmatrix}-4.0 & -1.0 & 1.0\end{bmatrix} + \begin{bmatrix}3.0 & -2.0 & -4.0\end{bmatrix}$

267. $\begin{bmatrix}-3.0 & 4.0 & 3.0\end{bmatrix}$ x $\begin{bmatrix}-1.0 & 2.0 & -2.0\end{bmatrix}$

268. normalize $\begin{bmatrix}-5.0 & -4.0 & 0.0\end{bmatrix}$

269. $\begin{bmatrix}4.0 & 4.0 & -2.0\end{bmatrix} + \begin{bmatrix}-1.0 & -5.0 & -4.0\end{bmatrix}$

270. $||\begin{bmatrix}1.0 & -5.0 & -4.0\end{bmatrix}||$

271. $||\begin{bmatrix}4.0 & -4.0 & -4.0\end{bmatrix}||$

272. $\begin{bmatrix}0.0 & -3.0 & -2.0\end{bmatrix} + \begin{bmatrix}0.0 & -1.0 & 0.0\end{bmatrix}$

273. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}3.0 & -5.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}3.0 & 1.0 & 4.0\end{bmatrix}$

274. normalize $\begin{bmatrix}3.0 & 0.0 & -2.0\end{bmatrix}$

275. normalize $\begin{bmatrix}-4.0 & -3.0 & 1.0\end{bmatrix}$

276. $\begin{bmatrix}-1.0 & -3.0 & 0.0\end{bmatrix} + \begin{bmatrix}4.0 & 0.0 & -5.0\end{bmatrix}$

277. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & -1.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & 0.0 & 2.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

278. $\begin{bmatrix}-4.0 & 4.0 & 1.0\end{bmatrix} + \begin{bmatrix}-2.0 & -1.0 & 0.0\end{bmatrix}$

279. What is the relationship between the following two vectors? $\begin{bmatrix}-1.0 & -4.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}2.0 & -4.0 & -4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

280. $\begin{bmatrix}-5.0 & 0.0 & -3.0\end{bmatrix} + \begin{bmatrix}-4.0 & -4.0 & -3.0\end{bmatrix}$

281. $\begin{bmatrix}0.0 & -1.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & -5.0 & 2.0\end{bmatrix}$

282. What is the vector from $\begin{bmatrix}4.0 & 0.0 & -3.0\end{bmatrix}$ to $\begin{bmatrix}4.0 & -3.0 & -4.0\end{bmatrix}$?

283. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}1.0 & -4.0 & -2.0\end{bmatrix}, \begin{bmatrix}0.0 & -4.0 & -2.0\end{bmatrix}$

284. $\begin{bmatrix}-5.0 & -4.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}1.0 & -2.0 & 4.0\end{bmatrix}$

285. $\begin{bmatrix}-2.0 & 1.0 & -1.0\end{bmatrix}$ x $\begin{bmatrix}1.0 & 1.0 & -1.0\end{bmatrix}$

286. What is the relationship between the following two vectors? $\begin{bmatrix}0.0 & 1.0 & 4.0\end{bmatrix}, \begin{bmatrix}3.0 & 4.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

287. $\begin{bmatrix}-2.0 & 0.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}3.0 & -3.0 & -4.0\end{bmatrix}$

288. What is the vector from $\begin{bmatrix}-4.0 & 2.0 & 0.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & -3.0 & 2.0\end{bmatrix}$?

289. $\begin{bmatrix}-5.0 & 0.0 & -3.0\end{bmatrix} + \begin{bmatrix}-1.0 & 0.0 & 0.0\end{bmatrix}$

290. $||\begin{bmatrix}-5.0 & 3.0 & -4.0\end{bmatrix}||$

291. normalize $\begin{bmatrix}0.0 & -3.0 & -1.0\end{bmatrix}$

292. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}3.0 & -4.0 & -3.0\end{bmatrix}, \begin{bmatrix}-3.0 & -4.0 & 0.0\end{bmatrix}$

293. $\begin{bmatrix}1.0 & 3.0 & 4.0\end{bmatrix}$ x $\begin{bmatrix}0.0 & -5.0 & -2.0\end{bmatrix}$

294. What is the relationship between the following two vectors? $\begin{bmatrix}3.0 & -4.0 & -2.0\end{bmatrix}, \begin{bmatrix}-2.0 & -4.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

295. $||\begin{bmatrix}-1.0 & 3.0 & -2.0\end{bmatrix}||$

296. normalize $\begin{bmatrix}-4.0 & 4.0 & -2.0\end{bmatrix}$

297. $||\begin{bmatrix}-4.0 & 4.0 & -3.0\end{bmatrix}||$

298. $||\begin{bmatrix}0.0 & 0.0 & 0.0\end{bmatrix}||$

299. What is the vector from $\begin{bmatrix}4.0 & -3.0 & 3.0\end{bmatrix}$ to $\begin{bmatrix}-5.0 & 1.0 & 3.0\end{bmatrix}$?

300. $\begin{bmatrix}-2.0 & -1.0 & 3.0\end{bmatrix} + \begin{bmatrix}0.0 & 1.0 & -4.0\end{bmatrix}$

301. normalize $\begin{bmatrix}-4.0 & -3.0 & -5.0\end{bmatrix}$

302. What is the relationship between the following two vectors? $\begin{bmatrix}-1.0 & 1.0 & -4.0\end{bmatrix}, \begin{bmatrix}-3.0 & 2.0 & 2.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

303. $\begin{bmatrix}-3.0 & 4.0 & 3.0\end{bmatrix}$ x $\begin{bmatrix}-5.0 & -4.0 & 3.0\end{bmatrix}$

304. What is the vector from $\begin{bmatrix}0.0 & -4.0 & 3.0\end{bmatrix}$ to $\begin{bmatrix}2.0 & -4.0 & -1.0\end{bmatrix}$?

305. $\begin{bmatrix}-2.0 & 0.0 & -4.0\end{bmatrix}$ x $\begin{bmatrix}-5.0 & 2.0 & 2.0\end{bmatrix}$

306. normalize $\begin{bmatrix}1.0 & 0.0 & 0.0\end{bmatrix}$

307. $||\begin{bmatrix}-1.0 & -3.0 & 2.0\end{bmatrix}||$

308. normalize $\begin{bmatrix}-5.0 & -3.0 & -1.0\end{bmatrix}$

309. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & -5.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}4.0 & 1.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

310. normalize $\begin{bmatrix}3.0 & -2.0 & 3.0\end{bmatrix}$

311. $\begin{bmatrix}-1.0 & 3.0 & 4.0\end{bmatrix} + \begin{bmatrix}1.0 & 3.0 & 3.0\end{bmatrix}$

312. $\begin{bmatrix}3.0 & 4.0 & -1.0\end{bmatrix}$ x $\begin{bmatrix}-4.0 & 3.0 & 3.0\end{bmatrix}$

313. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-4.0 & -5.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & -3.0 & -5.0\end{bmatrix}$

314. $||\begin{bmatrix}-3.0 & -3.0 & -4.0\end{bmatrix}||$

315. What is the relationship between the following two vectors? $\begin{bmatrix}-3.0 & 4.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}4.0 & -2.0 & 0.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

316. normalize $\begin{bmatrix}1.0 & 3.0 & 2.0\end{bmatrix}$

317. $\begin{bmatrix}-2.0 & -2.0 & 3.0\end{bmatrix}$ x $\begin{bmatrix}-3.0 & 1.0 & 3.0\end{bmatrix}$

318. $\begin{bmatrix}-2.0 & 1.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}0.0 & -5.0 & 3.0\end{bmatrix}$

319. $\begin{bmatrix}3.0 & -4.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & 3.0 & -1.0\end{bmatrix}$

320. What is the relationship between the following two vectors? $\begin{bmatrix}-1.0 & 4.0 & 1.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & -1.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

321. $\begin{bmatrix}-5.0 & 3.0 & 4.0\end{bmatrix} \cdot \begin{bmatrix}3.0 & -3.0 & 0.0\end{bmatrix}$

322. normalize $\begin{bmatrix}3.0 & 3.0 & -2.0\end{bmatrix}$

323. $\begin{bmatrix}-5.0 & -4.0 & -3.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & 0.0 & 0.0\end{bmatrix}$

324. What is the vector from $\begin{bmatrix}-5.0 & -4.0 & -2.0\end{bmatrix}$ to $\begin{bmatrix}-4.0 & 3.0 & 0.0\end{bmatrix}$?

325. What is the relationship between the following two vectors? $\begin{bmatrix}0.0 & 2.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & 0.0 & -2.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

326. What is the relationship between the following two vectors? $\begin{bmatrix}3.0 & 4.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}1.0 & -3.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

327. What is the vector from $\begin{bmatrix}-1.0 & 0.0 & -1.0\end{bmatrix}$ to $\begin{bmatrix}-5.0 & 3.0 & 4.0\end{bmatrix}$?

328. $\begin{bmatrix}-5.0 & 4.0 & -3.0\end{bmatrix} + \begin{bmatrix}1.0 & -1.0 & 2.0\end{bmatrix}$

329. What is the vector from $\begin{bmatrix}2.0 & -3.0 & 4.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & -5.0 & 2.0\end{bmatrix}$?

330. normalize $\begin{bmatrix}0.0 & 0.0 & -1.0\end{bmatrix}$

331. $\begin{bmatrix}-4.0 & 3.0 & -2.0\end{bmatrix} + \begin{bmatrix}-1.0 & -1.0 & -5.0\end{bmatrix}$

332. normalize $\begin{bmatrix}0.0 & -5.0 & -5.0\end{bmatrix}$

333. What is the vector from $\begin{bmatrix}-2.0 & 1.0 & 1.0\end{bmatrix}$ to $\begin{bmatrix}2.0 & 2.0 & -3.0\end{bmatrix}$?

334. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & 0.0 & 1.0\end{bmatrix}$, $\begin{bmatrix}1.0 & 1.0 & -4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

335. normalize $\begin{bmatrix}-3.0 & -2.0 & -4.0\end{bmatrix}$

336. What is the vector from $\begin{bmatrix}3.0 & -2.0 & -2.0\end{bmatrix}$ to $\begin{bmatrix}-3.0 & -2.0 & -1.0\end{bmatrix}$?

337. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-1.0 & -2.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}2.0 & 0.0 & 0.0\end{bmatrix}$

338. What is the relationship between the following two vectors? $\begin{bmatrix}2.0 & -1.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}0.0 & 4.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

339. $\begin{bmatrix}-3.0 & -4.0 & 3.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & -4.0 & 1.0\end{bmatrix}$

340. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}1.0 & -4.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}3.0 & -5.0 & -4.0\end{bmatrix}$

341. $\begin{bmatrix}-4.0 & 3.0 & 1.0\end{bmatrix} \cdot \begin{bmatrix}1.0 & 2.0 & -5.0\end{bmatrix}$

342. normalize $\begin{bmatrix}0.0 & 4.0 & -4.0\end{bmatrix}$

343. What is the vector from $\begin{bmatrix}-3.0 & 0.0 & -1.0\end{bmatrix}$ to $\begin{bmatrix}-5.0 & -4.0 & -4.0\end{bmatrix}$?

344. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}3.0 & 1.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}4.0 & -3.0 & 3.0\end{bmatrix}$

345. $\begin{bmatrix}-1.0 & -4.0 & -3.0\end{bmatrix} + \begin{bmatrix}-5.0 & 0.0 & 1.0\end{bmatrix}$

346. $\begin{bmatrix}0.0 & -5.0 & 3.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & 2.0 & -4.0\end{bmatrix}$

347. $\begin{bmatrix}-1.0 & -3.0 & -5.0\end{bmatrix} + \begin{bmatrix}2.0 & 0.0 & -1.0\end{bmatrix}$

348. $\begin{bmatrix}-3.0 & -2.0 & 4.0\end{bmatrix} \cdot \begin{bmatrix}-4.0 & 0.0 & -4.0\end{bmatrix}$

349. What is the relationship between the following two vectors? $\begin{bmatrix}2.0 & 4.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & 2.0 & 1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

350. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}0.0 & 0.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & 3.0 & -5.0\end{bmatrix}$

351. What is the relationship between the following two vectors? $\begin{bmatrix}-3.0 & 1.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & 1.0 & 1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

352. $\begin{bmatrix}-5.0 & -2.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}-5.0 & -5.0 & -4.0\end{bmatrix}$

353. normalize $\begin{bmatrix}0.0 & 0.0 & 2.0\end{bmatrix}$

354. $\begin{bmatrix}-5.0 & -5.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}-1.0 & -4.0 & -2.0\end{bmatrix}$

355. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}3.0 & -5.0 & 1.0\end{bmatrix}$, $\begin{bmatrix}1.0 & -2.0 & 4.0\end{bmatrix}$

356. normalize $\begin{bmatrix}1.0 & 3.0 & 1.0\end{bmatrix}$

357. What is the vector from $\begin{bmatrix}-1.0 & -5.0 & -2.0\end{bmatrix}$ to $\begin{bmatrix}-4.0 & -5.0 & 4.0\end{bmatrix}$?

358. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & 3.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & 0.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

359. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-3.0 & 1.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}0.0 & 4.0 & -2.0\end{bmatrix}$

360. $\begin{bmatrix}1.0 & 0.0 & -3.0\end{bmatrix} + \begin{bmatrix}3.0 & 2.0 & 1.0\end{bmatrix}$

361. $\begin{bmatrix}-5.0 & 0.0 & -1.0\end{bmatrix} + \begin{bmatrix}-2.0 & 1.0 & -1.0\end{bmatrix}$

362. $||\begin{bmatrix}-4.0 & 1.0 & -3.0\end{bmatrix}||$

363. normalize $\begin{bmatrix}0.0 & -3.0 & -1.0\end{bmatrix}$

364. $\begin{bmatrix}-1.0 & -2.0 & 1.0\end{bmatrix} + \begin{bmatrix}-2.0 & -3.0 & 0.0\end{bmatrix}$

365. $\begin{bmatrix}3.0 & 0.0 & -4.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & -4.0 & -1.0\end{bmatrix}$

366. normalize $\begin{bmatrix}-1.0 & -1.0 & 3.0\end{bmatrix}$

367. $\begin{bmatrix}-4.0 & 1.0 & 2.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & 1.0 & 2.0\end{bmatrix}$

368. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}4.0 & -2.0 & -3.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & -2.0 & 0.0\end{bmatrix}$

369. $\begin{bmatrix}1.0 & 0.0 & -4.0\end{bmatrix} + \begin{bmatrix}2.0 & -5.0 & 3.0\end{bmatrix}$

370. What is the vector from $\begin{bmatrix}-2.0 & 0.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}0.0 & 4.0 & 2.0\end{bmatrix}$?

371. normalize $\begin{bmatrix}4.0 & -3.0 & 2.0\end{bmatrix}$

372. $\begin{bmatrix}0.0 & 4.0 & 3.0\end{bmatrix}$ x $\begin{bmatrix}-2.0 & -3.0 & -1.0\end{bmatrix}$

373. $\begin{bmatrix}-1.0 & -3.0 & 0.0\end{bmatrix} \cdot \begin{bmatrix}1.0 & -3.0 & -5.0\end{bmatrix}$

374. $\begin{bmatrix}1.0 & -4.0 & 1.0\end{bmatrix} \cdot \begin{bmatrix}-4.0 & -3.0 & -3.0\end{bmatrix}$

375. normalize $\begin{bmatrix}-4.0 & -4.0 & -4.0\end{bmatrix}$

376. $\begin{bmatrix}-5.0 & 3.0 & -4.0\end{bmatrix} + \begin{bmatrix}-1.0 & 1.0 & -5.0\end{bmatrix}$

377. $||\begin{bmatrix}3.0 & 2.0 & 2.0\end{bmatrix}||$

378. What is the relationship between the following two vectors? $\begin{bmatrix}2.0 & -2.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & -3.0 & -5.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

379. $||\begin{bmatrix}-4.0 & -3.0 & 2.0\end{bmatrix}||$

380. What is the relationship between the following two vectors? $\begin{bmatrix}-1.0 & 0.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & -5.0 & 0.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

381. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}3.0 & 4.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}1.0 & 2.0 & 2.0\end{bmatrix}$

382. $\begin{bmatrix}-5.0 & 3.0 & 2.0\end{bmatrix} \cdot \begin{bmatrix}-2.0 & -2.0 & -4.0\end{bmatrix}$

383. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-5.0 & 4.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}0.0 & 2.0 & -5.0\end{bmatrix}$

384. $\begin{bmatrix}-1.0 & 2.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}3.0 & 0.0 & 4.0\end{bmatrix}$

385. $\begin{bmatrix}-4.0 & -2.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}1.0 & -1.0 & -2.0\end{bmatrix}$

386. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}0.0 & 4.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & 2.0 & 2.0\end{bmatrix}$

387. What is the vector from $\begin{bmatrix}2.0 & 3.0 & 3.0\end{bmatrix}$ to $\begin{bmatrix}0.0 & 2.0 & 0.0\end{bmatrix}$?

388. What is the vector from $\begin{bmatrix}-1.0 & -3.0 & -4.0\end{bmatrix}$ to $\begin{bmatrix}3.0 & 1.0 & -3.0\end{bmatrix}$?

389. $\begin{bmatrix}-2.0 & -4.0 & -3.0\end{bmatrix} \cdot \begin{bmatrix}-2.0 & 1.0 & 0.0\end{bmatrix}$

390. $\begin{bmatrix}2.0 & 3.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & 4.0 & -2.0\end{bmatrix}$

391. What is the vector from $\begin{bmatrix}3.0 & -1.0 & 1.0\end{bmatrix}$ to $\begin{bmatrix}2.0 & -1.0 & 0.0\end{bmatrix}$?

392. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-3.0 & -5.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}2.0 & -2.0 & -5.0\end{bmatrix}$

393. $\begin{bmatrix}-4.0 & -3.0 & 2.0\end{bmatrix} \cdot \begin{bmatrix}3.0 & -2.0 & 1.0\end{bmatrix}$

394. What is the relationship between the following two vectors? $\begin{bmatrix}1.0 & -4.0 & -3.0\end{bmatrix}$, $\begin{bmatrix}0.0 & 2.0 & -1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

395. $\begin{bmatrix}-2.0 & 4.0 & -3.0\end{bmatrix} \cdot \begin{bmatrix}3.0 & -1.0 & -5.0\end{bmatrix}$

396. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-3.0 & -4.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & 1.0 & 1.0\end{bmatrix}$

397. $\begin{bmatrix}2.0 & 4.0 & 3.0\end{bmatrix} + \begin{bmatrix}3.0 & 4.0 & 4.0\end{bmatrix}$

398. $\begin{bmatrix}0.0 & 3.0 & -3.0\end{bmatrix} + \begin{bmatrix}-4.0 & -3.0 & 1.0\end{bmatrix}$

399. $||\begin{bmatrix}-3.0 & 3.0 & -3.0\end{bmatrix}||$

400. What is the relationship between the following two vectors? $\begin{bmatrix}-3.0 & -2.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}0.0 & 1.0 & 4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

401. $||\begin{bmatrix}1.0 & 1.0 & 2.0\end{bmatrix}||$

402. $||\begin{bmatrix}0.0 & -2.0 & 0.0\end{bmatrix}||$

403. $\begin{bmatrix}-5.0 & -5.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}-3.0 & -1.0 & 1.0\end{bmatrix}$

404. What is the vector from $\begin{bmatrix}2.0 & 2.0 & -3.0\end{bmatrix}$ to $\begin{bmatrix}3.0 & -1.0 & -4.0\end{bmatrix}$?

405. $\begin{bmatrix}3.0 & 4.0 & -3.0\end{bmatrix} \cdot \begin{bmatrix}3.0 & -4.0 & 2.0\end{bmatrix}$

406. normalize $\begin{bmatrix}4.0 & -5.0 & -3.0\end{bmatrix}$

407. What is the relationship between the following two vectors? $\begin{bmatrix}-3.0 & 3.0 & -3.0\end{bmatrix}, \begin{bmatrix}-2.0 & 0.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

408. What is the relationship between the following two vectors? $\begin{bmatrix}-3.0 & -3.0 & 3.0\end{bmatrix}, \begin{bmatrix}-1.0 & -4.0 & -4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

409. $\begin{bmatrix}-3.0 & 1.0 & -5.0\end{bmatrix} + \begin{bmatrix}-4.0 & 2.0 & 4.0\end{bmatrix}$

410. $\begin{bmatrix}-4.0 & 3.0 & -1.0\end{bmatrix} + \begin{bmatrix}-1.0 & -2.0 & 0.0\end{bmatrix}$

411. normalize $\begin{bmatrix}0.0 & 1.0 & -3.0\end{bmatrix}$

412. normalize $\begin{bmatrix}0.0 & 0.0 & 4.0\end{bmatrix}$

413. $\begin{bmatrix}-2.0 & -5.0 & 2.0\end{bmatrix} \cdot \begin{bmatrix}3.0 & -2.0 & 4.0\end{bmatrix}$

414. normalize $\begin{bmatrix}-2.0 & -4.0 & 3.0\end{bmatrix}$

415. $\begin{bmatrix}-2.0 & 3.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}1.0 & 4.0 & -4.0\end{bmatrix}$

416. $\begin{bmatrix}0.0 & -1.0 & 0.0\end{bmatrix}$ x $\begin{bmatrix}-4.0 & 1.0 & 4.0\end{bmatrix}$

417. What is the vector from $\begin{bmatrix}0.0 & 2.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}1.0 & 2.0 & -5.0\end{bmatrix}$?

418. $\begin{bmatrix}0.0 & -4.0 & -5.0\end{bmatrix} + \begin{bmatrix}-3.0 & 3.0 & -3.0\end{bmatrix}$

419. $\begin{bmatrix}-2.0 & 1.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & 4.0 & -5.0\end{bmatrix}$

420. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}2.0 & 3.0 & -2.0\end{bmatrix}, \begin{bmatrix}-5.0 & -3.0 & 1.0\end{bmatrix}$

421. normalize $\begin{bmatrix}-3.0 & -3.0 & 2.0\end{bmatrix}$

422. $\begin{bmatrix}0.0 & 2.0 & -3.0\end{bmatrix}$ x $\begin{bmatrix}0.0 & -2.0 & -4.0\end{bmatrix}$

423. $\begin{bmatrix}-3.0 & 4.0 & 3.0\end{bmatrix} + \begin{bmatrix}-5.0 & -1.0 & 4.0\end{bmatrix}$

424. $\begin{bmatrix}-5.0 & 0.0 & -5.0\end{bmatrix} + \begin{bmatrix}-4.0 & -2.0 & 2.0\end{bmatrix}$

425. $\begin{bmatrix}2.0 & 4.0 & 0.0\end{bmatrix}$ x $\begin{bmatrix}-5.0 & -4.0 & -5.0\end{bmatrix}$

426. normalize $\begin{bmatrix}-3.0 & -4.0 & 3.0\end{bmatrix}$

427. What is the relationship between the following two vectors? $\begin{bmatrix}-1.0 & 0.0 & 3.0\end{bmatrix}, \begin{bmatrix}3.0 & -5.0 & -1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

428. $\begin{bmatrix}4.0 & -1.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}-3.0 & 1.0 & 0.0\end{bmatrix}$

429. normalize $\begin{bmatrix}-1.0 & -4.0 & -4.0\end{bmatrix}$

430. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}2.0 & -1.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}1.0 & -2.0 & -5.0\end{bmatrix}$

431. normalize $\begin{bmatrix}-4.0 & 4.0 & -4.0\end{bmatrix}$

432. $\begin{bmatrix}2.0 & -5.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}-2.0 & -2.0 & -3.0\end{bmatrix}$

433. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & -1.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}4.0 & -2.0 & -1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

434. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-4.0 & -3.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}0.0 & -3.0 & -3.0\end{bmatrix}$

435. $||\begin{bmatrix}-2.0 & -3.0 & 3.0\end{bmatrix}||$

436. $\begin{bmatrix}4.0 & 3.0 & 0.0\end{bmatrix}$ x $\begin{bmatrix}1.0 & -4.0 & -4.0\end{bmatrix}$

437. $\begin{bmatrix}-3.0 & -4.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}4.0 & -3.0 & 0.0\end{bmatrix}$

438. What is the vector from $\begin{bmatrix}-2.0 & 2.0 & 2.0\end{bmatrix}$ to $\begin{bmatrix}4.0 & -3.0 & 4.0\end{bmatrix}$?

439. What is the relationship between the following two vectors? $\begin{bmatrix}0.0 & 1.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & -2.0 & 0.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

440. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-1.0 & -5.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}3.0 & -1.0 & 0.0\end{bmatrix}$

441. What is the relationship between the following two vectors? $\begin{bmatrix}-3.0 & 0.0 & -3.0\end{bmatrix}$, $\begin{bmatrix}2.0 & 4.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

442. $\begin{bmatrix}-5.0 & 1.0 & 4.0\end{bmatrix} + \begin{bmatrix}3.0 & -4.0 & 3.0\end{bmatrix}$

443. What is the relationship between the following two vectors? $\begin{bmatrix}3.0 & -1.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}1.0 & -5.0 & -4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

444. $\begin{bmatrix}0.0 & -3.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}4.0 & 4.0 & 0.0\end{bmatrix}$

445. $\begin{bmatrix}3.0 & -1.0 & -1.0\end{bmatrix} + \begin{bmatrix}-2.0 & 2.0 & 3.0\end{bmatrix}$

446. $\begin{bmatrix}0.0 & -1.0 & -2.0\end{bmatrix} + \begin{bmatrix}2.0 & 3.0 & 4.0\end{bmatrix}$

447. What is the relationship between the following two vectors? $\begin{bmatrix}4.0 & 4.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & 0.0 & -5.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

448. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & 2.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & 2.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

449. $\begin{bmatrix}-3.0 & 2.0 & -4.0\end{bmatrix} + \begin{bmatrix}2.0 & -2.0 & 4.0\end{bmatrix}$

450. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-2.0 & 0.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}1.0 & 1.0 & 1.0\end{bmatrix}$

451. What is the relationship between the following two vectors? $\begin{bmatrix}4.0 & -2.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & 2.0 & 4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

452. $\begin{bmatrix}-3.0 & 4.0 & -2.0\end{bmatrix} + \begin{bmatrix}2.0 & 2.0 & -2.0\end{bmatrix}$

453. What is the relationship between the following two vectors? $\begin{bmatrix}3.0 & -5.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & 2.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

454. normalize $\begin{bmatrix}-2.0 & 4.0 & 3.0\end{bmatrix}$

455. $\begin{bmatrix}2.0 & 0.0 & -3.0\end{bmatrix} + \begin{bmatrix}2.0 & -2.0 & 0.0\end{bmatrix}$

456. What is the relationship between the following two vectors? $\begin{bmatrix}2.0 & 4.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & -2.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

457. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & 0.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}4.0 & -2.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

458. What is the vector from $\begin{bmatrix}2.0 & 4.0 & -1.0\end{bmatrix}$ to $\begin{bmatrix}0.0 & -5.0 & -4.0\end{bmatrix}$?

459. $\begin{bmatrix}1.0 & 2.0 & -4.0\end{bmatrix}$ x $\begin{bmatrix}-4.0 & 1.0 & -3.0\end{bmatrix}$

460. What is the vector from $\begin{bmatrix}3.0 & 0.0 & 2.0\end{bmatrix}$ to $\begin{bmatrix}3.0 & 2.0 & 2.0\end{bmatrix}$?

461. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}4.0 & 2.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}3.0 & 0.0 & 4.0\end{bmatrix}$

462. $||\begin{bmatrix}-1.0 & -2.0 & -4.0\end{bmatrix}||$

463. $||\begin{bmatrix}4.0 & -3.0 & 4.0\end{bmatrix}||$

464. $\begin{bmatrix}-2.0 & 1.0 & 3.0\end{bmatrix} + \begin{bmatrix}3.0 & 4.0 & -3.0\end{bmatrix}$

465. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}4.0 & -5.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & -4.0 & 2.0\end{bmatrix}$

466. $\begin{bmatrix}-2.0 & 0.0 & 1.0\end{bmatrix} + \begin{bmatrix}2.0 & -2.0 & 0.0\end{bmatrix}$

467. $\begin{bmatrix}4.0 & 3.0 & -5.0\end{bmatrix} + \begin{bmatrix}3.0 & -4.0 & 4.0\end{bmatrix}$

468. $\begin{bmatrix}2.0 & 1.0 & 0.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & -3.0 & -1.0\end{bmatrix}$

469. $\begin{bmatrix}-4.0 & 0.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}-4.0 & 4.0 & 2.0\end{bmatrix}$

470. $\begin{bmatrix}-3.0 & 1.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}-4.0 & -1.0 & 3.0\end{bmatrix}$

471. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-5.0 & -1.0 & 1.0\end{bmatrix}$, $\begin{bmatrix}0.0 & 2.0 & -3.0\end{bmatrix}$

472. $\begin{bmatrix}-2.0 & 4.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}-2.0 & -5.0 & 0.0\end{bmatrix}$

473. $||\begin{bmatrix}4.0 & 4.0 & -1.0\end{bmatrix}||$

474. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}4.0 & -3.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & -1.0 & 1.0\end{bmatrix}$

475. $\begin{bmatrix}3.0 & 4.0 & -1.0\end{bmatrix} + \begin{bmatrix}2.0 & -2.0 & 2.0\end{bmatrix}$

476. $\left|\left|\begin{bmatrix}-4.0 & -3.0 & 4.0\end{bmatrix}\right|\right|$

477. What is the vector from $\begin{bmatrix}4.0 & -1.0 & -3.0\end{bmatrix}$ to $\begin{bmatrix}-5.0 & 0.0 & 1.0\end{bmatrix}$?

478. normalize $\begin{bmatrix}4.0 & 4.0 & -5.0\end{bmatrix}$

479. What is the relationship between the following two vectors? $\begin{bmatrix}4.0 & -4.0 & -3.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & -2.0 & 4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

480. What is the relationship between the following two vectors? $\begin{bmatrix}3.0 & 1.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & 3.0 & 1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

481. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-1.0 & -2.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}2.0 & 0.0 & -3.0\end{bmatrix}$

482. $\left|\left|\begin{bmatrix}1.0 & -3.0 & 1.0\end{bmatrix}\right|\right|$

483. What is the relationship between the following two vectors? $\begin{bmatrix}3.0 & -1.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & -4.0 & -4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

484. $\begin{bmatrix}-3.0 & 3.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}-1.0 & -2.0 & 4.0\end{bmatrix}$

485. $\left|\left|\begin{bmatrix}1.0 & -1.0 & 4.0\end{bmatrix}\right|\right|$

486. What is the vector from $\begin{bmatrix}-3.0 & 2.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}1.0 & -2.0 & 2.0\end{bmatrix}$?

487. $\begin{bmatrix}3.0 & -1.0 & -5.0\end{bmatrix} + \begin{bmatrix}-3.0 & 1.0 & -4.0\end{bmatrix}$

488. $\begin{bmatrix}-2.0 & -4.0 & 3.0\end{bmatrix} \cdot \begin{bmatrix}4.0 & -2.0 & -2.0\end{bmatrix}$

489. $\begin{bmatrix}-3.0 & -3.0 & 1.0\end{bmatrix} + \begin{bmatrix}-3.0 & -5.0 & -5.0\end{bmatrix}$

490. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}4.0 & -3.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}0.0 & 4.0 & -2.0\end{bmatrix}$

491. $\begin{bmatrix}-4.0 & -3.0 & 3.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & 3.0 & 4.0\end{bmatrix}$

492. $\begin{bmatrix}4.0 & 0.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}-2.0 & 4.0 & -2.0\end{bmatrix}$

493. $\left|\left|\begin{bmatrix}3.0 & -2.0 & -5.0\end{bmatrix}\right|\right|$

494. What is the relationship between the following two vectors? $\begin{bmatrix}4.0 & -2.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & 2.0 & -1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

495. What is the vector from $\begin{bmatrix}-5.0 & -4.0 & 3.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & 3.0 & -1.0\end{bmatrix}$?

496. $\begin{bmatrix}2.0 & 2.0 & -5.0\end{bmatrix} + \begin{bmatrix}-1.0 & 3.0 & -5.0\end{bmatrix}$

497. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-2.0 & 0.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & -5.0 & 3.0\end{bmatrix}$

498. $\begin{bmatrix}-5.0 & -1.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}4.0 & -1.0 & -1.0\end{bmatrix}$

499. What is the relationship between the following two vectors? $\begin{bmatrix}4.0 & -3.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & -3.0 & 4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

500. normalize $\begin{bmatrix}1.0 & 3.0 & 4.0\end{bmatrix}$

501. $||\begin{bmatrix}4.0 & 1.0 & 0.0\end{bmatrix}||$

502. $\begin{bmatrix}1.0 & -4.0 & -5.0\end{bmatrix}$ x $\begin{bmatrix}4.0 & 4.0 & -1.0\end{bmatrix}$

503. $\begin{bmatrix}0.0 & 1.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}-2.0 & -1.0 & 3.0\end{bmatrix}$

504. $\begin{bmatrix}2.0 & -4.0 & -4.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & 1.0 & -3.0\end{bmatrix}$

505. What is the vector from $\begin{bmatrix}3.0 & 1.0 & -2.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & 0.0 & -1.0\end{bmatrix}$?

506. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-5.0 & 2.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}0.0 & -2.0 & 3.0\end{bmatrix}$

507. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-2.0 & -2.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & -1.0 & 1.0\end{bmatrix}$

508. $\begin{bmatrix}3.0 & 1.0 & -5.0\end{bmatrix}$ x $\begin{bmatrix}1.0 & -1.0 & -5.0\end{bmatrix}$

509. $\begin{bmatrix}-5.0 & -5.0 & 4.0\end{bmatrix} + \begin{bmatrix}0.0 & -5.0 & 4.0\end{bmatrix}$

510. normalize $\begin{bmatrix}0.0 & 2.0 & -1.0\end{bmatrix}$

511. $||\begin{bmatrix}4.0 & 2.0 & -1.0\end{bmatrix}||$

512. $\begin{bmatrix}0.0 & 0.0 & -2.0\end{bmatrix} + \begin{bmatrix}-2.0 & 0.0 & 4.0\end{bmatrix}$

513. What is the relationship between the following two vectors? $\begin{bmatrix}-1.0 & -5.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & -1.0 & -2.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

514. $\begin{bmatrix}0.0 & -2.0 & 4.0\end{bmatrix} \cdot \begin{bmatrix}-2.0 & 0.0 & 3.0\end{bmatrix}$

515. $\begin{bmatrix}-1.0 & 2.0 & -4.0\end{bmatrix} + \begin{bmatrix}-5.0 & 0.0 & 4.0\end{bmatrix}$

516. $||\begin{bmatrix}-5.0 & 3.0 & -4.0\end{bmatrix}||$

517. $\begin{bmatrix}1.0 & -1.0 & -4.0\end{bmatrix} + \begin{bmatrix}1.0 & -2.0 & -5.0\end{bmatrix}$

518. What is the vector from $\begin{bmatrix}1.0 & -3.0 & -4.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & -5.0 & 4.0\end{bmatrix}$?

519. $\begin{bmatrix}-3.0 & -4.0 & 3.0\end{bmatrix}$ x $\begin{bmatrix}-4.0 & -4.0 & -5.0\end{bmatrix}$

520. $\begin{bmatrix}0.0 & -1.0 & -1.0\end{bmatrix}$ x $\begin{bmatrix}0.0 & 1.0 & -1.0\end{bmatrix}$

521. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & 3.0 & -3.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & 0.0 & 0.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

522. $\begin{bmatrix}3.0 & -1.0 & -1.0\end{bmatrix}$ x $\begin{bmatrix}2.0 & -3.0 & 1.0\end{bmatrix}$

523. normalize $\begin{bmatrix}1.0 & -4.0 & 2.0\end{bmatrix}$

524. $\begin{bmatrix}-2.0 & -1.0 & 0.0\end{bmatrix} + \begin{bmatrix}4.0 & -5.0 & -3.0\end{bmatrix}$

525. $||\begin{bmatrix}4.0 & 2.0 & -4.0\end{bmatrix}||$

526. What is the relationship between the following two vectors? $\begin{bmatrix}1.0 & -4.0 & -3.0\end{bmatrix}, \begin{bmatrix}0.0 & 3.0 & 2.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

527. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-2.0 & 0.0 & -4.0\end{bmatrix}, \begin{bmatrix}4.0 & -1.0 & 1.0\end{bmatrix}$

528. $\begin{bmatrix}-2.0 & -4.0 & -4.0\end{bmatrix}$ x $\begin{bmatrix}3.0 & 2.0 & -5.0\end{bmatrix}$

529. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-5.0 & 1.0 & -4.0\end{bmatrix}, \begin{bmatrix}2.0 & -2.0 & -5.0\end{bmatrix}$

530. $\begin{bmatrix}-4.0 & -5.0 & -4.0\end{bmatrix} + \begin{bmatrix}-4.0 & -2.0 & 3.0\end{bmatrix}$

531. What is the vector from $\begin{bmatrix}3.0 & 4.0 & -1.0\end{bmatrix}$ to $\begin{bmatrix}3.0 & 0.0 & 0.0\end{bmatrix}$?

532. $\begin{bmatrix}-5.0 & 4.0 & 0.0\end{bmatrix} + \begin{bmatrix}3.0 & 3.0 & 1.0\end{bmatrix}$

533. $\begin{bmatrix}1.0 & -3.0 & 2.0\end{bmatrix} \cdot \begin{bmatrix}-2.0 & -3.0 & 4.0\end{bmatrix}$

534. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}3.0 & -4.0 & 1.0\end{bmatrix}, \begin{bmatrix}1.0 & -1.0 & 2.0\end{bmatrix}$

535. $||\begin{bmatrix}-5.0 & -4.0 & -3.0\end{bmatrix}||$

536. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-2.0 & -3.0 & 4.0\end{bmatrix}, \begin{bmatrix}-5.0 & -5.0 & -3.0\end{bmatrix}$

537. $\begin{bmatrix}-2.0 & 1.0 & 3.0\end{bmatrix} + \begin{bmatrix}2.0 & -2.0 & -1.0\end{bmatrix}$

538. $||\begin{bmatrix}1.0 & 2.0 & -1.0\end{bmatrix}||$

539. $\begin{bmatrix}4.0 & 4.0 & 2.0\end{bmatrix}$ x $\begin{bmatrix}3.0 & 2.0 & -3.0\end{bmatrix}$

540. $\begin{bmatrix}2.0 & 1.0 & -3.0\end{bmatrix} + \begin{bmatrix}2.0 & 3.0 & 2.0\end{bmatrix}$

541. What is the relationship between the following two vectors? $\begin{bmatrix}0.0 & 2.0 & 0.0\end{bmatrix}, \begin{bmatrix}4.0 & 1.0 & -2.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

542. $\begin{bmatrix}0.0 & -2.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & -3.0 & -3.0\end{bmatrix}$

543. What is the vector from $\begin{bmatrix}1.0 & -5.0 & -1.0\end{bmatrix}$ to $\begin{bmatrix}1.0 & -2.0 & -5.0\end{bmatrix}$?

544. $\begin{bmatrix}4.0 & -4.0 & 3.0\end{bmatrix} + \begin{bmatrix}-3.0 & 1.0 & -4.0\end{bmatrix}$

545. $\begin{bmatrix}-2.0 & 2.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & -5.0 & -4.0\end{bmatrix}$

546. $||\begin{bmatrix}0.0 & -3.0 & 4.0\end{bmatrix}||$

547. What is the relationship between the following two vectors? $\begin{bmatrix}2.0 & 0.0 & 1.0\end{bmatrix}, \begin{bmatrix}0.0 & 3.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

548. $||\begin{bmatrix}2.0 & -4.0 & -1.0\end{bmatrix}||$

549. What is the vector from $\begin{bmatrix}3.0 & 2.0 & -1.0\end{bmatrix}$ to $\begin{bmatrix}-4.0 & -1.0 & 2.0\end{bmatrix}$?

550. normalize $\begin{bmatrix} -4.0 & 2.0 & 1.0 \end{bmatrix}$

551. normalize $\begin{bmatrix} -2.0 & -3.0 & 0.0 \end{bmatrix}$

552. $\begin{bmatrix} 2.0 & -2.0 & -1.0 \end{bmatrix} \cdot \begin{bmatrix} 0.0 & 0.0 & -3.0 \end{bmatrix}$

553. $\begin{bmatrix} -3.0 & -3.0 & 4.0 \end{bmatrix} + \begin{bmatrix} 0.0 & 0.0 & 4.0 \end{bmatrix}$

554. normalize $\begin{bmatrix} -2.0 & -4.0 & 2.0 \end{bmatrix}$

555. $||\begin{bmatrix} 4.0 & 2.0 & 3.0 \end{bmatrix}||$

556. $\begin{bmatrix} 1.0 & -2.0 & -4.0 \end{bmatrix} \cdot \begin{bmatrix} -1.0 & 1.0 & -1.0 \end{bmatrix}$

557. $\begin{bmatrix} -2.0 & 1.0 & -2.0 \end{bmatrix} \cdot \begin{bmatrix} 3.0 & -4.0 & -3.0 \end{bmatrix}$

558. normalize $\begin{bmatrix} 4.0 & 0.0 & 4.0 \end{bmatrix}$

559. $\begin{bmatrix} 2.0 & 2.0 & -4.0 \end{bmatrix} \cdot \begin{bmatrix} 4.0 & 2.0 & 1.0 \end{bmatrix}$

560. $\begin{bmatrix} -2.0 & 3.0 & 1.0 \end{bmatrix} + \begin{bmatrix} -2.0 & -3.0 & -3.0 \end{bmatrix}$

561. What is the angle between the following two vectors (in radians)? $\begin{bmatrix} 4.0 & 3.0 & 1.0 \end{bmatrix}, \begin{bmatrix} -4.0 & 3.0 & 2.0 \end{bmatrix}$

562. $||\begin{bmatrix} -5.0 & 3.0 & 1.0 \end{bmatrix}||$

563. What is the relationship between the following two vectors? $\begin{bmatrix} 2.0 & 0.0 & -3.0 \end{bmatrix}, \begin{bmatrix} -4.0 & -3.0 & 4.0 \end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

564. $\begin{bmatrix} -4.0 & 0.0 & -3.0 \end{bmatrix} + \begin{bmatrix} -2.0 & -2.0 & 2.0 \end{bmatrix}$

565. What is the angle between the following two vectors (in radians)? $\begin{bmatrix} 3.0 & -1.0 & 2.0 \end{bmatrix}, \begin{bmatrix} 3.0 & 1.0 & 3.0 \end{bmatrix}$

566. What is the relationship between the following two vectors? $\begin{bmatrix} 2.0 & -1.0 & -4.0 \end{bmatrix}, \begin{bmatrix} 3.0 & 2.0 & 3.0 \end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

567. $\begin{bmatrix} -1.0 & -5.0 & -3.0 \end{bmatrix} \cdot \begin{bmatrix} -3.0 & 0.0 & -5.0 \end{bmatrix}$

568. What is the angle between the following two vectors (in radians)? $\begin{bmatrix} 4.0 & 0.0 & 2.0 \end{bmatrix}, \begin{bmatrix} -4.0 & -1.0 & 1.0 \end{bmatrix}$

569. What is the relationship between the following two vectors? $\begin{bmatrix} -1.0 & -1.0 & 2.0 \end{bmatrix}, \begin{bmatrix} -4.0 & -2.0 & 1.0 \end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

570. $||\begin{bmatrix} -3.0 & -4.0 & -5.0 \end{bmatrix}||$

571. What is the vector from $\begin{bmatrix} -2.0 & 3.0 & 0.0 \end{bmatrix}$ to $\begin{bmatrix} 3.0 & -3.0 & 2.0 \end{bmatrix}$?

572. $\begin{bmatrix} -5.0 & -3.0 & 2.0 \end{bmatrix}$ x $\begin{bmatrix} 3.0 & -2.0 & 3.0 \end{bmatrix}$

573. $||\begin{bmatrix} -3.0 & 3.0 & -1.0 \end{bmatrix}||$

574. $\begin{bmatrix} 2.0 & 1.0 & 3.0 \end{bmatrix} + \begin{bmatrix} 2.0 & -5.0 & 1.0 \end{bmatrix}$

575. $||\begin{bmatrix} -3.0 & -4.0 & -3.0 \end{bmatrix}||$

576. $\begin{bmatrix}3.0 & -4.0 & 0.0\end{bmatrix} \cdot \begin{bmatrix}3.0 & 3.0 & -2.0\end{bmatrix}$

577. What is the vector from $\begin{bmatrix}-2.0 & -2.0 & -3.0\end{bmatrix}$ to $\begin{bmatrix}-3.0 & -4.0 & 4.0\end{bmatrix}$?

578. What is the relationship between the following two vectors? $\begin{bmatrix}0.0 & 0.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & 0.0 & -5.0\end{bmatrix}$ a) They point in the same direction b) they point in opposite directions c) they are perpendicular

579. What is the vector from $\begin{bmatrix}3.0 & 0.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}0.0 & -4.0 & -2.0\end{bmatrix}$?

580. $\begin{bmatrix}2.0 & -5.0 & 4.0\end{bmatrix}$ x $\begin{bmatrix}-1.0 & -4.0 & -2.0\end{bmatrix}$

581. $\begin{bmatrix}-5.0 & -4.0 & 1.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & -3.0 & 3.0\end{bmatrix}$

582. $||\begin{bmatrix}2.0 & -5.0 & 0.0\end{bmatrix}||$

583. $\begin{bmatrix}-2.0 & 0.0 & -5.0\end{bmatrix}$ x $\begin{bmatrix}4.0 & 2.0 & 1.0\end{bmatrix}$

584. What is the vector from $\begin{bmatrix}0.0 & 0.0 & -2.0\end{bmatrix}$ to $\begin{bmatrix}0.0 & 0.0 & 0.0\end{bmatrix}$?

585. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-4.0 & -1.0 & -3.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & 2.0 & -2.0\end{bmatrix}$

586. $\begin{bmatrix}3.0 & -3.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}1.0 & 3.0 & 4.0\end{bmatrix}$

587. normalize $\begin{bmatrix}1.0 & 0.0 & 2.0\end{bmatrix}$

588. $\begin{bmatrix}-4.0 & -5.0 & 0.0\end{bmatrix} + \begin{bmatrix}0.0 & -5.0 & 3.0\end{bmatrix}$

589. $\begin{bmatrix}1.0 & 4.0 & -3.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & -5.0 & 1.0\end{bmatrix}$

590. $\begin{bmatrix}-1.0 & -3.0 & 3.0\end{bmatrix} + \begin{bmatrix}1.0 & 1.0 & 3.0\end{bmatrix}$

591. normalize $\begin{bmatrix}-5.0 & -2.0 & -4.0\end{bmatrix}$

592. What is the vector from $\begin{bmatrix}0.0 & -3.0 & 2.0\end{bmatrix}$ to $\begin{bmatrix}1.0 & 3.0 & 4.0\end{bmatrix}$?

593. $\begin{bmatrix}-5.0 & 2.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}1.0 & -2.0 & -1.0\end{bmatrix}$

594. $\begin{bmatrix}1.0 & 0.0 & -3.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & 3.0 & 2.0\end{bmatrix}$

595. $||\begin{bmatrix}-5.0 & 0.0 & -2.0\end{bmatrix}||$

596. $\begin{bmatrix}0.0 & 1.0 & -4.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & 3.0 & 3.0\end{bmatrix}$

597. $\begin{bmatrix}-3.0 & 0.0 & -5.0\end{bmatrix}$ x $\begin{bmatrix}-4.0 & -4.0 & -2.0\end{bmatrix}$

598. normalize $\begin{bmatrix}4.0 & -4.0 & 2.0\end{bmatrix}$

599. What is the vector from $\begin{bmatrix}0.0 & 0.0 & -1.0\end{bmatrix}$ to $\begin{bmatrix}3.0 & 4.0 & 3.0\end{bmatrix}$?

600. What is the relationship between the following two vectors? $\begin{bmatrix}3.0 & -3.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}1.0 & 4.0 & -5.0\end{bmatrix}$ a) They point in the same direction b) they point in opposite directions c) they are perpendicular

601. What is the vector from $\begin{bmatrix}-4.0 & 1.0 & -3.0\end{bmatrix}$ to $\begin{bmatrix}-3.0 & 4.0 & -2.0\end{bmatrix}$?

602. $\begin{bmatrix}-2.0 & -4.0 & -5.0\end{bmatrix} + \begin{bmatrix}3.0 & -3.0 & -4.0\end{bmatrix}$

603. $||\begin{bmatrix}3.0 & 3.0 & -5.0\end{bmatrix}||$

604. What is the relationship between the following two vectors? $\begin{bmatrix}1.0 & 3.0 & 0.0\end{bmatrix}, \begin{bmatrix}0.0 & 1.0 & 3.0\end{bmatrix}$ a) They point in the same direction b) they point in opposite directions c) they are perpendicular

605. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}1.0 & 0.0 & -4.0\end{bmatrix}, \begin{bmatrix}-1.0 & 4.0 & 0.0\end{bmatrix}$

606. normalize $\begin{bmatrix}1.0 & -1.0 & 3.0\end{bmatrix}$

607. What is the vector from $\begin{bmatrix}-1.0 & 2.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}4.0 & -4.0 & 4.0\end{bmatrix}$?

608. normalize $\begin{bmatrix}3.0 & 0.0 & -4.0\end{bmatrix}$

609. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}2.0 & 2.0 & 4.0\end{bmatrix}, \begin{bmatrix}4.0 & -3.0 & 3.0\end{bmatrix}$

610. What is the vector from $\begin{bmatrix}3.0 & 3.0 & -3.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & 0.0 & 3.0\end{bmatrix}$?

611. $\begin{bmatrix}-1.0 & 2.0 & 2.0\end{bmatrix} + \begin{bmatrix}2.0 & 4.0 & -5.0\end{bmatrix}$

612. What is the relationship between the following two vectors? $\begin{bmatrix}0.0 & -4.0 & -5.0\end{bmatrix}, \begin{bmatrix}2.0 & -4.0 & -4.0\end{bmatrix}$ a) They point in the same direction b) they point in opposite directions c) they are perpendicular

613. $||\begin{bmatrix}-1.0 & -5.0 & 3.0\end{bmatrix}||$

614. $\begin{bmatrix}-4.0 & 3.0 & -3.0\end{bmatrix}$ x $\begin{bmatrix}-1.0 & 0.0 & -5.0\end{bmatrix}$

615. $\begin{bmatrix}-3.0 & -3.0 & 3.0\end{bmatrix} + \begin{bmatrix}4.0 & 4.0 & -2.0\end{bmatrix}$

616. $\begin{bmatrix}-2.0 & 3.0 & 2.0\end{bmatrix} + \begin{bmatrix}3.0 & -3.0 & 2.0\end{bmatrix}$

617. $||\begin{bmatrix}1.0 & -4.0 & 4.0\end{bmatrix}||$

618. $||\begin{bmatrix}3.0 & -2.0 & 4.0\end{bmatrix}||$

619. What is the vector from $\begin{bmatrix}-2.0 & 1.0 & 4.0\end{bmatrix}$ to $\begin{bmatrix}-3.0 & 3.0 & -5.0\end{bmatrix}$?

620. What is the vector from $\begin{bmatrix}-1.0 & -4.0 & -1.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & -2.0 & 2.0\end{bmatrix}$?

621. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}3.0 & -1.0 & -1.0\end{bmatrix}, \begin{bmatrix}-5.0 & 0.0 & 3.0\end{bmatrix}$

622. What is the vector from $\begin{bmatrix}3.0 & -1.0 & 2.0\end{bmatrix}$ to $\begin{bmatrix}-4.0 & -1.0 & -5.0\end{bmatrix}$?

623. $\begin{bmatrix}0.0 & 3.0 & 3.0\end{bmatrix}$ x $\begin{bmatrix}4.0 & -5.0 & 4.0\end{bmatrix}$

624. What is the relationship between the following two vectors? $\begin{bmatrix}-5.0 & 4.0 & -1.0\end{bmatrix}, \begin{bmatrix}3.0 & -5.0 & 1.0\end{bmatrix}$ a) They point in the same direction b) they point in opposite directions c) they are perpendicular

625. $||\begin{bmatrix}4.0 & 3.0 & -5.0\end{bmatrix}||$

626. $\begin{bmatrix}-4.0 & 1.0 & 1.0\end{bmatrix}$ x $\begin{bmatrix}2.0 & -2.0 & 3.0\end{bmatrix}$

627. $\begin{bmatrix}3.0 & 4.0 & 2.0\end{bmatrix} \cdot \begin{bmatrix}-3.0 & -5.0 & -4.0\end{bmatrix}$

628. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}1.0 & 3.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & 0.0 & 3.0\end{bmatrix}$

629. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-2.0 & 3.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}0.0 & 0.0 & 1.0\end{bmatrix}$

630. $\begin{bmatrix}4.0 & 0.0 & -2.0\end{bmatrix} + \begin{bmatrix}-3.0 & -4.0 & 1.0\end{bmatrix}$

631. normalize $\begin{bmatrix}4.0 & -3.0 & 3.0\end{bmatrix}$

632. $\begin{bmatrix}4.0 & 3.0 & 4.0\end{bmatrix}$ x $\begin{bmatrix}2.0 & -3.0 & -3.0\end{bmatrix}$

633. $\begin{bmatrix}-2.0 & 2.0 & 0.0\end{bmatrix}$ x $\begin{bmatrix}-1.0 & -3.0 & -1.0\end{bmatrix}$

634. $\begin{bmatrix}4.0 & 3.0 & 3.0\end{bmatrix} + \begin{bmatrix}1.0 & -4.0 & 2.0\end{bmatrix}$

635. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-4.0 & 3.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & -5.0 & 4.0\end{bmatrix}$

636. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & 3.0 & -3.0\end{bmatrix}$, $\begin{bmatrix}3.0 & 4.0 & -5.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

637. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}2.0 & 2.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}2.0 & -4.0 & 3.0\end{bmatrix}$

638. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}0.0 & 2.0 & -3.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & 4.0 & -2.0\end{bmatrix}$

639. normalize $\begin{bmatrix}-1.0 & 4.0 & 1.0\end{bmatrix}$

640. $||\begin{bmatrix}4.0 & -4.0 & -1.0\end{bmatrix}||$

641. $||\begin{bmatrix}-5.0 & -1.0 & 2.0\end{bmatrix}||$

642. $\begin{bmatrix}-5.0 & 3.0 & 4.0\end{bmatrix}$ x $\begin{bmatrix}4.0 & 1.0 & -4.0\end{bmatrix}$

643. $\begin{bmatrix}1.0 & 4.0 & -1.0\end{bmatrix} + \begin{bmatrix}-4.0 & 4.0 & 2.0\end{bmatrix}$

644. What is the vector from $\begin{bmatrix}4.0 & 1.0 & -3.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & -4.0 & -1.0\end{bmatrix}$?

645. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & 0.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & -3.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

646. normalize $\begin{bmatrix}3.0 & -4.0 & 1.0\end{bmatrix}$

647. normalize $\begin{bmatrix}-5.0 & -5.0 & -2.0\end{bmatrix}$

648. $\begin{bmatrix}4.0 & 2.0 & 2.0\end{bmatrix}$ x $\begin{bmatrix}-4.0 & -3.0 & 2.0\end{bmatrix}$

649. What is the vector from $\begin{bmatrix}0.0 & 2.0 & 0.0\end{bmatrix}$ to $\begin{bmatrix}4.0 & -2.0 & 3.0\end{bmatrix}$?

650. $\begin{bmatrix}-2.0 & -1.0 & -3.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & 1.0 & -1.0\end{bmatrix}$

651. What is the vector from $\begin{bmatrix}-4.0 & -5.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}2.0 & 0.0 & -1.0\end{bmatrix}$?

652. $\begin{bmatrix}4.0 & 1.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}-2.0 & -3.0 & -3.0\end{bmatrix}$

653. $||\begin{bmatrix}-4.0 & -4.0 & 4.0\end{bmatrix}||$

654. What is the relationship between the following two vectors? $\begin{bmatrix}-1.0 & -1.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}2.0 & 3.0 & -4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

655. $\begin{bmatrix}-4.0 & 3.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}-4.0 & 1.0 & 1.0\end{bmatrix}$

656. $||\begin{bmatrix}3.0 & -5.0 & -2.0\end{bmatrix}||$

657. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-1.0 & -5.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & -4.0 & 0.0\end{bmatrix}$

658. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-3.0 & -4.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & 4.0 & -2.0\end{bmatrix}$

659. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}1.0 & -2.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}4.0 & -4.0 & 3.0\end{bmatrix}$

660. What is the vector from $\begin{bmatrix}-2.0 & -4.0 & 0.0\end{bmatrix}$ to $\begin{bmatrix}-4.0 & 4.0 & -1.0\end{bmatrix}$?

661. $\begin{bmatrix}-5.0 & -4.0 & -4.0\end{bmatrix} + \begin{bmatrix}2.0 & 4.0 & 2.0\end{bmatrix}$

662. $\begin{bmatrix}2.0 & 1.0 & -4.0\end{bmatrix} + \begin{bmatrix}0.0 & 4.0 & 4.0\end{bmatrix}$

663. normalize $\begin{bmatrix}-3.0 & 1.0 & -5.0\end{bmatrix}$

664. normalize $\begin{bmatrix}2.0 & 2.0 & -1.0\end{bmatrix}$

665. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}1.0 & 0.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & -3.0 & 2.0\end{bmatrix}$

666. normalize $\begin{bmatrix}0.0 & 1.0 & -2.0\end{bmatrix}$

667. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & -1.0 & 1.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & 2.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

668. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & 1.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & -1.0 & -4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

669. What is the relationship between the following two vectors? $\begin{bmatrix}2.0 & 2.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}3.0 & -1.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

670. What is the relationship between the following two vectors? $\begin{bmatrix}-5.0 & -5.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & 3.0 & 1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

671. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}2.0 & 0.0 & -3.0\end{bmatrix}$, $\begin{bmatrix}4.0 & 0.0 & 0.0\end{bmatrix}$

672. normalize $\begin{bmatrix}4.0 & -2.0 & 2.0\end{bmatrix}$

673. normalize $\begin{bmatrix}-4.0 & -1.0 & -3.0\end{bmatrix}$

674. What is the relationship between the following two vectors? $\begin{bmatrix}1.0 & -2.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & -1.0 & 4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

675. $\begin{bmatrix}-1.0 & 2.0 & -4.0\end{bmatrix} \cdot \begin{bmatrix}1.0 & 2.0 & 4.0\end{bmatrix}$

676. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-4.0 & -2.0 & 4.0\end{bmatrix}, \begin{bmatrix}1.0 & -2.0 & 3.0\end{bmatrix}$

677. What is the relationship between the following two vectors? $\begin{bmatrix}-1.0 & 3.0 & 3.0\end{bmatrix}, \begin{bmatrix}-5.0 & 2.0 & -4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

678. $\begin{bmatrix}2.0 & -4.0 & 3.0\end{bmatrix}$ x $\begin{bmatrix}3.0 & 1.0 & -2.0\end{bmatrix}$

679. $\begin{bmatrix}2.0 & -1.0 & 1.0\end{bmatrix} \cdot \begin{bmatrix}-4.0 & 2.0 & 4.0\end{bmatrix}$

680. normalize $\begin{bmatrix}2.0 & -5.0 & -3.0\end{bmatrix}$

681. What is the vector from $\begin{bmatrix}3.0 & 1.0 & 3.0\end{bmatrix}$ to $\begin{bmatrix}4.0 & -2.0 & 4.0\end{bmatrix}$?

682. $\begin{bmatrix}-3.0 & 4.0 & 3.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & 3.0 & 0.0\end{bmatrix}$

683. What is the vector from $\begin{bmatrix}0.0 & -2.0 & 0.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & 1.0 & 1.0\end{bmatrix}$?

684. $\begin{bmatrix}-1.0 & -3.0 & 2.0\end{bmatrix} \cdot \begin{bmatrix}3.0 & 0.0 & -2.0\end{bmatrix}$

685. normalize $\begin{bmatrix}-5.0 & 0.0 & 0.0\end{bmatrix}$

686. $||\begin{bmatrix}0.0 & -5.0 & 3.0\end{bmatrix}||$

687. What is the vector from $\begin{bmatrix}-1.0 & -3.0 & 4.0\end{bmatrix}$ to $\begin{bmatrix}1.0 & 0.0 & -5.0\end{bmatrix}$?

688. What is the vector from $\begin{bmatrix}1.0 & 3.0 & -4.0\end{bmatrix}$ to $\begin{bmatrix}2.0 & 4.0 & -3.0\end{bmatrix}$?

689. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}2.0 & 3.0 & -5.0\end{bmatrix}, \begin{bmatrix}-1.0 & 2.0 & 0.0\end{bmatrix}$

690. What is the vector from $\begin{bmatrix}-5.0 & -4.0 & 2.0\end{bmatrix}$ to $\begin{bmatrix}2.0 & 0.0 & 0.0\end{bmatrix}$?

691. $||\begin{bmatrix}-1.0 & 1.0 & 0.0\end{bmatrix}||$

692. $\begin{bmatrix}-5.0 & -3.0 & 1.0\end{bmatrix}$ x $\begin{bmatrix}-3.0 & -2.0 & -2.0\end{bmatrix}$

693. $\begin{bmatrix}-1.0 & -2.0 & 1.0\end{bmatrix} + \begin{bmatrix}-4.0 & -1.0 & 4.0\end{bmatrix}$

694. $\begin{bmatrix}0.0 & -3.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}-3.0 & 4.0 & 4.0\end{bmatrix}$

695. $||\begin{bmatrix}0.0 & 4.0 & 2.0\end{bmatrix}||$

696. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-5.0 & -1.0 & 0.0\end{bmatrix}, \begin{bmatrix}3.0 & 1.0 & 3.0\end{bmatrix}$

697. $\begin{bmatrix}-1.0 & -1.0 & 4.0\end{bmatrix} \cdot \begin{bmatrix}-4.0 & 3.0 & -4.0\end{bmatrix}$

698. $\begin{bmatrix}3.0 & 0.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}3.0 & 4.0 & -3.0\end{bmatrix}$

699. $\begin{bmatrix}-1.0 & 1.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & -5.0 & -4.0\end{bmatrix}$

700. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-4.0 & 4.0 & -3.0\end{bmatrix}, \begin{bmatrix}3.0 & -3.0 & 3.0\end{bmatrix}$

701. $\begin{bmatrix}-2.0 & 4.0 & 4.0\end{bmatrix} \cdot \begin{bmatrix}3.0 & -5.0 & -5.0\end{bmatrix}$

702. $||\begin{bmatrix}1.0 & 2.0 & -4.0\end{bmatrix}||$

703. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-2.0 & 1.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}0.0 & -5.0 & -5.0\end{bmatrix}$

704. What is the vector from $\begin{bmatrix}1.0 & -2.0 & 2.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & -4.0 & -1.0\end{bmatrix}$?

705. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-2.0 & -3.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}3.0 & -1.0 & 1.0\end{bmatrix}$

706. $||\begin{bmatrix}1.0 & 1.0 & -5.0\end{bmatrix}||$

707. $\begin{bmatrix}4.0 & -3.0 & -5.0\end{bmatrix} + \begin{bmatrix}3.0 & -2.0 & -2.0\end{bmatrix}$

708. $||\begin{bmatrix}4.0 & -1.0 & -2.0\end{bmatrix}||$

709. What is the relationship between the following two vectors? $\begin{bmatrix}0.0 & 0.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}3.0 & 4.0 & -2.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

710. $\begin{bmatrix}-5.0 & 1.0 & 1.0\end{bmatrix} \cdot \begin{bmatrix}1.0 & -3.0 & -3.0\end{bmatrix}$

711. What is the vector from $\begin{bmatrix}2.0 & -4.0 & 1.0\end{bmatrix}$ to $\begin{bmatrix}3.0 & -3.0 & 1.0\end{bmatrix}$?

712. $\begin{bmatrix}4.0 & -5.0 & 0.0\end{bmatrix} + \begin{bmatrix}-4.0 & 0.0 & -1.0\end{bmatrix}$

713. $\begin{bmatrix}-5.0 & -2.0 & -5.0\end{bmatrix} + \begin{bmatrix}-3.0 & 4.0 & 0.0\end{bmatrix}$

714. $\begin{bmatrix}-5.0 & -3.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & 0.0 & 4.0\end{bmatrix}$

715. $\begin{bmatrix}4.0 & -2.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}-3.0 & -5.0 & -5.0\end{bmatrix}$

716. $\begin{bmatrix}-1.0 & 0.0 & 1.0\end{bmatrix} + \begin{bmatrix}0.0 & -5.0 & -3.0\end{bmatrix}$

717. $\begin{bmatrix}1.0 & 4.0 & 2.0\end{bmatrix}$ x $\begin{bmatrix}1.0 & -2.0 & -4.0\end{bmatrix}$

718. $||\begin{bmatrix}1.0 & -4.0 & 2.0\end{bmatrix}||$

719. $\begin{bmatrix}1.0 & 1.0 & 4.0\end{bmatrix} + \begin{bmatrix}-3.0 & 0.0 & 2.0\end{bmatrix}$

720. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-5.0 & -1.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}4.0 & 0.0 & 2.0\end{bmatrix}$

721. $||\begin{bmatrix}0.0 & 3.0 & -3.0\end{bmatrix}||$

722. What is the relationship between the following two vectors? $\begin{bmatrix}-3.0 & 1.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & 2.0 & 1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

723. $\begin{bmatrix}-2.0 & -1.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}-2.0 & -1.0 & -5.0\end{bmatrix}$

724. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}1.0 & -2.0 & 1.0\end{bmatrix}$, $\begin{bmatrix}3.0 & 3.0 & 4.0\end{bmatrix}$

725. $\begin{bmatrix}-2.0 & 3.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}-2.0 & 4.0 & 3.0\end{bmatrix}$

726. $||\begin{bmatrix}-3.0 & -4.0 & 1.0\end{bmatrix}||$

727. $\begin{bmatrix}-2.0 & 4.0 & -1.0\end{bmatrix} + \begin{bmatrix}-5.0 & 1.0 & 4.0\end{bmatrix}$

728. $\begin{bmatrix}-1.0 & -5.0 & 1.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & 4.0 & 0.0\end{bmatrix}$

729. $\begin{bmatrix}3.0 & 0.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}3.0 & 3.0 & -3.0\end{bmatrix}$

730. $\begin{bmatrix}-5.0 & -5.0 & 0.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & -4.0 & -1.0\end{bmatrix}$

731. normalize $\begin{bmatrix}-5.0 & -5.0 & 2.0\end{bmatrix}$

732. $||\begin{bmatrix}4.0 & -1.0 & -4.0\end{bmatrix}||$

733. normalize $\begin{bmatrix}4.0 & 3.0 & -2.0\end{bmatrix}$

734. $\begin{bmatrix}3.0 & -1.0 & -5.0\end{bmatrix} + \begin{bmatrix}3.0 & -5.0 & 4.0\end{bmatrix}$

735. $\begin{bmatrix}0.0 & -1.0 & 2.0\end{bmatrix} + \begin{bmatrix}-5.0 & 2.0 & -2.0\end{bmatrix}$

736. normalize $\begin{bmatrix}0.0 & 4.0 & -2.0\end{bmatrix}$

737. $\begin{bmatrix}-4.0 & -2.0 & -4.0\end{bmatrix} \cdot \begin{bmatrix}1.0 & -5.0 & -3.0\end{bmatrix}$

738. What is the relationship between the following two vectors? $\begin{bmatrix}-5.0 & -4.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}4.0 & 2.0 & -2.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

739. normalize $\begin{bmatrix}-4.0 & -4.0 & -4.0\end{bmatrix}$

740. $\begin{bmatrix}1.0 & -1.0 & -3.0\end{bmatrix} + \begin{bmatrix}0.0 & -4.0 & 0.0\end{bmatrix}$

741. What is the vector from $\begin{bmatrix}3.0 & 4.0 & 3.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & -4.0 & -5.0\end{bmatrix}$?

742. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-2.0 & 4.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & -4.0 & 0.0\end{bmatrix}$

743. What is the vector from $\begin{bmatrix}-3.0 & 3.0 & 4.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & 2.0 & 3.0\end{bmatrix}$?

744. normalize $\begin{bmatrix}1.0 & 1.0 & 3.0\end{bmatrix}$

745. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}4.0 & -2.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & 2.0 & -1.0\end{bmatrix}$

746. $\begin{bmatrix}3.0 & -4.0 & -3.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & -1.0 & 3.0\end{bmatrix}$

747. $\begin{bmatrix}4.0 & -4.0 & 3.0\end{bmatrix} \cdot \begin{bmatrix}4.0 & -4.0 & 0.0\end{bmatrix}$

748. $\begin{bmatrix}-5.0 & 0.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}-4.0 & 0.0 & -3.0\end{bmatrix}$

749. What is the vector from $\begin{bmatrix}-4.0 & 3.0 & 2.0\end{bmatrix}$ to $\begin{bmatrix}0.0 & -1.0 & 0.0\end{bmatrix}$?

750. $||\begin{bmatrix}0.0 & -4.0 & -5.0\end{bmatrix}||$

751. $\begin{bmatrix}3.0 & -2.0 & 3.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & -5.0 & -5.0\end{bmatrix}$

752. $||\begin{bmatrix}-1.0 & 4.0 & -4.0\end{bmatrix}||$

753. $\begin{bmatrix}1.0 & -1.0 & 4.0\end{bmatrix} + \begin{bmatrix}1.0 & -1.0 & 2.0\end{bmatrix}$

754. What is the relationship between the following two vectors? $\begin{bmatrix}4.0 & 4.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}3.0 & -4.0 & 4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

755. $\begin{bmatrix}-2.0 & -5.0 & -1.0\end{bmatrix} + \begin{bmatrix}-3.0 & -4.0 & 1.0\end{bmatrix}$

756. $\begin{bmatrix}-5.0 & 2.0 & 2.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & 2.0 & 4.0\end{bmatrix}$

757. $\begin{bmatrix}-2.0 & -1.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}-4.0 & -1.0 & -1.0\end{bmatrix}$

758. What is the relationship between the following two vectors? $\begin{bmatrix}1.0 & 0.0 & -4.0\end{bmatrix}, \begin{bmatrix}-5.0 & 4.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

759. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & -3.0 & -2.0\end{bmatrix}, \begin{bmatrix}-5.0 & 4.0 & 0.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

760. $\begin{bmatrix}-5.0 & -5.0 & -5.0\end{bmatrix} + \begin{bmatrix}-5.0 & -5.0 & -5.0\end{bmatrix}$

761. normalize $\begin{bmatrix}3.0 & -4.0 & -5.0\end{bmatrix}$

762. $\begin{bmatrix}2.0 & -3.0 & 1.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & 1.0 & 1.0\end{bmatrix}$

763. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & -3.0 & -3.0\end{bmatrix}, \begin{bmatrix}2.0 & 0.0 & -4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

764. What is the vector from $\begin{bmatrix}0.0 & -2.0 & 2.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & 4.0 & 0.0\end{bmatrix}$?

765. $\begin{bmatrix}4.0 & 0.0 & -3.0\end{bmatrix} \cdot \begin{bmatrix}4.0 & 3.0 & 0.0\end{bmatrix}$

766. $\begin{bmatrix}0.0 & -4.0 & 2.0\end{bmatrix} + \begin{bmatrix}1.0 & 2.0 & -2.0\end{bmatrix}$

767. $||\begin{bmatrix}-3.0 & -4.0 & 1.0\end{bmatrix}||$

768. $\begin{bmatrix}-3.0 & -2.0 & -3.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & 2.0 & 4.0\end{bmatrix}$

769. $\begin{bmatrix}-1.0 & 4.0 & -2.0\end{bmatrix} + \begin{bmatrix}-5.0 & -1.0 & -2.0\end{bmatrix}$

770. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-2.0 & 0.0 & 4.0\end{bmatrix}, \begin{bmatrix}4.0 & 4.0 & -2.0\end{bmatrix}$

771. What is the vector from $\begin{bmatrix}1.0 & -3.0 & -1.0\end{bmatrix}$ to $\begin{bmatrix}3.0 & -2.0 & -2.0\end{bmatrix}$?

772. What is the vector from $\begin{bmatrix}3.0 & 0.0 & 1.0\end{bmatrix}$ to $\begin{bmatrix}0.0 & -4.0 & -1.0\end{bmatrix}$?

773. What is the relationship between the following two vectors? $\begin{bmatrix}0.0 & -1.0 & -3.0\end{bmatrix}, \begin{bmatrix}-4.0 & 2.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

774. normalize $\begin{bmatrix}-2.0 & 2.0 & -2.0\end{bmatrix}$

775. $\begin{bmatrix}-1.0 & 0.0 & -3.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & 4.0 & 3.0\end{bmatrix}$

776. $\begin{bmatrix}-2.0 & -1.0 & 3.0\end{bmatrix} + \begin{bmatrix}-3.0 & -1.0 & 2.0\end{bmatrix}$

777. What is the vector from $\begin{bmatrix}-3.0 & -2.0 & -3.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & 2.0 & -4.0\end{bmatrix}$?

778. $||\begin{bmatrix}-4.0 & 2.0 & 3.0\end{bmatrix}||$

779. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}1.0 & 2.0 & 1.0\end{bmatrix}, \begin{bmatrix}4.0 & 2.0 & 4.0\end{bmatrix}$

780. $||\begin{bmatrix}4.0 & 2.0 & -5.0\end{bmatrix}||$

781. $\begin{bmatrix}0.0 & 0.0 & -1.0\end{bmatrix} + \begin{bmatrix}3.0 & 2.0 & 4.0\end{bmatrix}$

782. What is the relationship between the following two vectors? $\begin{bmatrix}3.0 & 2.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}4.0 & -3.0 & 0.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

783. $\begin{bmatrix}1.0 & 3.0 & 2.0\end{bmatrix}$ x $\begin{bmatrix}3.0 & -4.0 & -4.0\end{bmatrix}$

784. $\begin{bmatrix}-3.0 & -4.0 & 1.0\end{bmatrix} + \begin{bmatrix}1.0 & 3.0 & 0.0\end{bmatrix}$

785. $\begin{bmatrix}2.0 & 4.0 & -1.0\end{bmatrix} + \begin{bmatrix}-2.0 & -2.0 & 1.0\end{bmatrix}$

786. normalize $\begin{bmatrix}3.0 & -5.0 & -2.0\end{bmatrix}$

787. $\begin{bmatrix}-1.0 & -1.0 & 2.0\end{bmatrix}$ x $\begin{bmatrix}-5.0 & -1.0 & 1.0\end{bmatrix}$

788. $\begin{bmatrix}-3.0 & -4.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & 1.0 & -1.0\end{bmatrix}$

789. $||\begin{bmatrix}-4.0 & -1.0 & -3.0\end{bmatrix}||$

790. $||\begin{bmatrix}0.0 & 0.0 & 3.0\end{bmatrix}||$

791. What is the relationship between the following two vectors? $\begin{bmatrix}1.0 & -5.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & -4.0 & 1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

792. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & 0.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}2.0 & -1.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

793. normalize $\begin{bmatrix}3.0 & 4.0 & -1.0\end{bmatrix}$

794. $||\begin{bmatrix}-4.0 & -3.0 & 1.0\end{bmatrix}||$

795. What is the vector from $\begin{bmatrix}-5.0 & 1.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & 2.0 & -3.0\end{bmatrix}$?

796. $\begin{bmatrix}1.0 & -4.0 & -1.0\end{bmatrix}$ x $\begin{bmatrix}-3.0 & 3.0 & 0.0\end{bmatrix}$

797. $\begin{bmatrix}-2.0 & 0.0 & -3.0\end{bmatrix} + \begin{bmatrix}-4.0 & -3.0 & 2.0\end{bmatrix}$

798. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}4.0 & 2.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}2.0 & 1.0 & 0.0\end{bmatrix}$

799. $\begin{bmatrix}-1.0 & 3.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}3.0 & 2.0 & 1.0\end{bmatrix}$

800. $\begin{bmatrix}-4.0 & 2.0 & 0.0\end{bmatrix} + \begin{bmatrix}4.0 & -1.0 & -3.0\end{bmatrix}$

801. normalize $\begin{bmatrix}0.0 & -3.0 & -3.0\end{bmatrix}$

802. $||\begin{bmatrix}0.0 & 4.0 & 2.0\end{bmatrix}||$

803. normalize $\begin{bmatrix}2.0 & -3.0 & 1.0\end{bmatrix}$

804. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & -2.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}4.0 & -3.0 & -1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

805. What is the relationship between the following two vectors? $\begin{bmatrix}4.0 & 3.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & -5.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

806. normalize $\begin{bmatrix}-3.0 & -1.0 & -4.0\end{bmatrix}$

807. $||\begin{bmatrix}2.0 & -4.0 & -3.0\end{bmatrix}||$

808. $\begin{bmatrix}-5.0 & 2.0 & -5.0\end{bmatrix} + \begin{bmatrix}-1.0 & 0.0 & -2.0\end{bmatrix}$

809. What is the relationship between the following two vectors? $\begin{bmatrix}3.0 & -1.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}1.0 & -3.0 & 1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

810. $\begin{bmatrix}-4.0 & -1.0 & -4.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & 3.0 & -1.0\end{bmatrix}$

811. $||\begin{bmatrix}-5.0 & 0.0 & -3.0\end{bmatrix}||$

812. normalize $\begin{bmatrix}2.0 & -2.0 & -2.0\end{bmatrix}$

813. normalize $\begin{bmatrix}-1.0 & 2.0 & 2.0\end{bmatrix}$

814. $||\begin{bmatrix}0.0 & 2.0 & -4.0\end{bmatrix}||$

815. What is the vector from $\begin{bmatrix}-1.0 & -3.0 & -4.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & 0.0 & -4.0\end{bmatrix}$?

816. $\begin{bmatrix}-1.0 & -1.0 & -5.0\end{bmatrix} + \begin{bmatrix}3.0 & 1.0 & 2.0\end{bmatrix}$

817. $\begin{bmatrix}-4.0 & -1.0 & -1.0\end{bmatrix} + \begin{bmatrix}0.0 & 0.0 & -4.0\end{bmatrix}$

818. $\begin{bmatrix}-4.0 & -4.0 & 0.0\end{bmatrix} + \begin{bmatrix}-1.0 & 4.0 & 1.0\end{bmatrix}$

819. normalize $\begin{bmatrix}4.0 & -1.0 & -4.0\end{bmatrix}$

820. $\begin{bmatrix}3.0 & 0.0 & 0.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & 3.0 & 3.0\end{bmatrix}$

821. normalize $\begin{bmatrix}-4.0 & -4.0 & 0.0\end{bmatrix}$

822. $\begin{bmatrix}3.0 & 1.0 & 3.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & 0.0 & 4.0\end{bmatrix}$

823. $\begin{bmatrix}-2.0 & 0.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}1.0 & 1.0 & 2.0\end{bmatrix}$

824. normalize $\begin{bmatrix}-2.0 & 0.0 & 0.0\end{bmatrix}$

825. $||\begin{bmatrix}-2.0 & 3.0 & 4.0\end{bmatrix}||$

826. $\begin{bmatrix}2.0 & -4.0 & 0.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & 1.0 & 1.0\end{bmatrix}$

827. $||\begin{bmatrix}-4.0 & 1.0 & -5.0\end{bmatrix}||$

828. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & 2.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}4.0 & -4.0 & -4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

829. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-3.0 & 1.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & -5.0 & 3.0\end{bmatrix}$

830. What is the relationship between the following two vectors? $\begin{bmatrix}1.0 & 2.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}1.0 & 2.0 & 4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

831. $||\begin{bmatrix}3.0 & -2.0 & -1.0\end{bmatrix}||$

832. What is the vector from $\begin{bmatrix}-3.0 & -1.0 & 4.0\end{bmatrix}$ to $\begin{bmatrix}1.0 & -3.0 & -5.0\end{bmatrix}$?

833. normalize $\begin{bmatrix}-5.0 & -4.0 & 4.0\end{bmatrix}$

834. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}1.0 & -3.0 & 1.0\end{bmatrix}$, $\begin{bmatrix}-2.0 & -5.0 & 3.0\end{bmatrix}$

835. normalize $\begin{bmatrix}-1.0 & -2.0 & 1.0\end{bmatrix}$

836. $\begin{bmatrix}3.0 & -1.0 & -4.0\end{bmatrix}$ x $\begin{bmatrix}1.0 & -4.0 & 4.0\end{bmatrix}$

837. What is the vector from $\begin{bmatrix}-2.0 & 0.0 & 1.0\end{bmatrix}$ to $\begin{bmatrix}1.0 & 1.0 & 0.0\end{bmatrix}$?

838. $||\begin{bmatrix}-1.0 & -2.0 & -4.0\end{bmatrix}||$

839. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-5.0 & 4.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & 2.0 & -3.0\end{bmatrix}$

840. What is the vector from $\begin{bmatrix}0.0 & -5.0 & -4.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & -4.0 & 0.0\end{bmatrix}$?

841. $\begin{bmatrix}-1.0 & 0.0 & 4.0\end{bmatrix} \cdot \begin{bmatrix}4.0 & 3.0 & 1.0\end{bmatrix}$

842. $\begin{bmatrix}-4.0 & 3.0 & 3.0\end{bmatrix}$ x $\begin{bmatrix}-5.0 & -2.0 & -1.0\end{bmatrix}$

843. $\begin{bmatrix}-3.0 & 3.0 & -1.0\end{bmatrix} + \begin{bmatrix}-2.0 & -3.0 & -4.0\end{bmatrix}$

844. What is the vector from $\begin{bmatrix}-3.0 & 3.0 & -3.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & 0.0 & -5.0\end{bmatrix}$?

845. $\begin{bmatrix}4.0 & -4.0 & 3.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & -3.0 & -4.0\end{bmatrix}$

846. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}4.0 & -1.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}0.0 & -2.0 & 1.0\end{bmatrix}$

847. $||\begin{bmatrix}3.0 & 2.0 & 4.0\end{bmatrix}||$

848. What is the vector from $\begin{bmatrix}-2.0 & -4.0 & 1.0\end{bmatrix}$ to $\begin{bmatrix}1.0 & -1.0 & 0.0\end{bmatrix}$?

849. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}0.0 & 3.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}0.0 & 4.0 & -4.0\end{bmatrix}$

850. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & 1.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & -1.0 & -5.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

851. What is the relationship between the following two vectors? $\begin{bmatrix}4.0 & -1.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}4.0 & -2.0 & -5.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

852. $\begin{bmatrix}-1.0 & 0.0 & 0.0\end{bmatrix}$ x $\begin{bmatrix}2.0 & 2.0 & 1.0\end{bmatrix}$

853. $\begin{bmatrix}-1.0 & 1.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}-3.0 & 0.0 & -3.0\end{bmatrix}$

854. $\begin{bmatrix}0.0 & -1.0 & -1.0\end{bmatrix}$ x $\begin{bmatrix}-3.0 & 2.0 & -4.0\end{bmatrix}$

855. $\begin{bmatrix}-3.0 & -3.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & 2.0 & -3.0\end{bmatrix}$

856. $\begin{bmatrix}3.0 & -5.0 & 3.0\end{bmatrix}$ x $\begin{bmatrix}0.0 & -3.0 & 0.0\end{bmatrix}$

857. normalize $\begin{bmatrix}1.0 & 1.0 & 2.0\end{bmatrix}$

858. $\begin{bmatrix}3.0 & -5.0 & -4.0\end{bmatrix} + \begin{bmatrix}-4.0 & -3.0 & 3.0\end{bmatrix}$

859. What is the vector from $\begin{bmatrix}1.0 & 4.0 & 3.0\end{bmatrix}$ to $\begin{bmatrix}0.0 & -5.0 & -3.0\end{bmatrix}$?

860. $\begin{bmatrix}2.0 & 1.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & -2.0 & -2.0\end{bmatrix}$

861. $\begin{bmatrix}0.0 & -3.0 & -1.0\end{bmatrix} \cdot \begin{bmatrix}-4.0 & 2.0 & -1.0\end{bmatrix}$

862. $\begin{bmatrix}1.0 & -5.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & 1.0 & -4.0\end{bmatrix}$

863. normalize $\begin{bmatrix}-2.0 & 3.0 & 2.0\end{bmatrix}$

864. $\begin{bmatrix}-1.0 & -2.0 & -5.0\end{bmatrix}$ x $\begin{bmatrix}1.0 & -3.0 & -5.0\end{bmatrix}$

865. What is the relationship between the following two vectors? $\begin{bmatrix}-3.0 & -2.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}1.0 & 0.0 & -2.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

866. What is the vector from $\begin{bmatrix}2.0 & 2.0 & 0.0\end{bmatrix}$ to $\begin{bmatrix}2.0 & -4.0 & 1.0\end{bmatrix}$?

867. What is the vector from $\begin{bmatrix}-1.0 & 0.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}-2.0 & 4.0 & 1.0\end{bmatrix}$?

868. $||\begin{bmatrix}2.0 & -5.0 & 3.0\end{bmatrix}||$

869. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-5.0 & -1.0 & 4.0\end{bmatrix}$, $\begin{bmatrix}4.0 & -3.0 & -3.0\end{bmatrix}$

870. What is the relationship between the following two vectors? $\begin{bmatrix}4.0 & -1.0 & -1.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & -1.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

871. $||\begin{bmatrix}1.0 & -4.0 & 3.0\end{bmatrix}||$

872. $\begin{bmatrix}2.0 & -2.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}-3.0 & 2.0 & 0.0\end{bmatrix}$

873. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}0.0 & 2.0 & -3.0\end{bmatrix}$, $\begin{bmatrix}3.0 & 2.0 & 4.0\end{bmatrix}$

874. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}0.0 & 0.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}1.0 & -5.0 & -2.0\end{bmatrix}$

875. normalize $\begin{bmatrix}-1.0 & 2.0 & 0.0\end{bmatrix}$

876. What is the relationship between the following two vectors? $\begin{bmatrix}3.0 & 1.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & 1.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

877. normalize $\begin{bmatrix}-3.0 & 0.0 & 3.0\end{bmatrix}$

878. $\begin{bmatrix}4.0 & -3.0 & 0.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & 3.0 & -5.0\end{bmatrix}$

879. $\begin{bmatrix}-3.0 & -5.0 & 0.0\end{bmatrix} + \begin{bmatrix}-5.0 & -3.0 & -3.0\end{bmatrix}$

880. $\begin{bmatrix}-4.0 & 4.0 & 1.0\end{bmatrix} \cdot \begin{bmatrix}-4.0 & 1.0 & 0.0\end{bmatrix}$

881. $\begin{bmatrix}-2.0 & 1.0 & 2.0\end{bmatrix} + \begin{bmatrix}3.0 & 3.0 & -2.0\end{bmatrix}$

882. normalize $\begin{bmatrix} 2.0 & -5.0 & 0.0 \end{bmatrix}$

883. What is the relationship between the following two vectors? $\begin{bmatrix} 2.0 & 4.0 & 4.0 \end{bmatrix}$, $\begin{bmatrix} -4.0 & 2.0 & 4.0 \end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

884. $\begin{bmatrix} -4.0 & 3.0 & -3.0 \end{bmatrix}$ x $\begin{bmatrix} -1.0 & -5.0 & 0.0 \end{bmatrix}$

885. What is the relationship between the following two vectors? $\begin{bmatrix} 2.0 & -3.0 & 0.0 \end{bmatrix}$, $\begin{bmatrix} 1.0 & -3.0 & -3.0 \end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

886. $\begin{bmatrix} 4.0 & -1.0 & 3.0 \end{bmatrix}$ x $\begin{bmatrix} 3.0 & -1.0 & 4.0 \end{bmatrix}$

887. $\begin{bmatrix} -3.0 & 2.0 & -5.0 \end{bmatrix} + \begin{bmatrix} 2.0 & 3.0 & -2.0 \end{bmatrix}$

888. $\begin{bmatrix} -1.0 & -2.0 & 0.0 \end{bmatrix} \cdot \begin{bmatrix} 1.0 & 0.0 & 1.0 \end{bmatrix}$

889. What is the angle between the following two vectors (in radians)? $\begin{bmatrix} 3.0 & 2.0 & 0.0 \end{bmatrix}$, $\begin{bmatrix} -3.0 & 0.0 & -2.0 \end{bmatrix}$

890. $\begin{bmatrix} -1.0 & -1.0 & -2.0 \end{bmatrix} \cdot \begin{bmatrix} 0.0 & -2.0 & -4.0 \end{bmatrix}$

891. $\begin{bmatrix} 4.0 & 1.0 & -1.0 \end{bmatrix} \cdot \begin{bmatrix} 0.0 & 0.0 & -2.0 \end{bmatrix}$

892. $\begin{bmatrix} 0.0 & 1.0 & 4.0 \end{bmatrix} + \begin{bmatrix} -4.0 & 3.0 & 4.0 \end{bmatrix}$

893. What is the angle between the following two vectors (in radians)? $\begin{bmatrix} 2.0 & -1.0 & -4.0 \end{bmatrix}$, $\begin{bmatrix} 1.0 & 4.0 & 4.0 \end{bmatrix}$

894. What is the angle between the following two vectors (in radians)? $\begin{bmatrix} -3.0 & 2.0 & -1.0 \end{bmatrix}$, $\begin{bmatrix} -1.0 & -4.0 & -4.0 \end{bmatrix}$

895. What is the angle between the following two vectors (in radians)? $\begin{bmatrix} -1.0 & 2.0 & 4.0 \end{bmatrix}$, $\begin{bmatrix} 0.0 & -3.0 & 1.0 \end{bmatrix}$

896. normalize $\begin{bmatrix} 0.0 & 4.0 & -4.0 \end{bmatrix}$

897. $||\begin{bmatrix} -1.0 & -4.0 & 1.0 \end{bmatrix}||$

898. $\begin{bmatrix} 1.0 & 2.0 & -5.0 \end{bmatrix} \cdot \begin{bmatrix} -1.0 & 1.0 & -5.0 \end{bmatrix}$

899. $\begin{bmatrix} 0.0 & -1.0 & 1.0 \end{bmatrix} \cdot \begin{bmatrix} 0.0 & 0.0 & -4.0 \end{bmatrix}$

900. $\begin{bmatrix} 2.0 & 0.0 & 0.0 \end{bmatrix} + \begin{bmatrix} 0.0 & -2.0 & 2.0 \end{bmatrix}$

901. $\begin{bmatrix} -3.0 & -1.0 & -3.0 \end{bmatrix} + \begin{bmatrix} 3.0 & 2.0 & -1.0 \end{bmatrix}$

902. What is the angle between the following two vectors (in radians)? $\begin{bmatrix} 4.0 & -4.0 & 0.0 \end{bmatrix}$, $\begin{bmatrix} -3.0 & 2.0 & -1.0 \end{bmatrix}$

903. What is the relationship between the following two vectors? $\begin{bmatrix} 3.0 & 0.0 & 3.0 \end{bmatrix}$, $\begin{bmatrix} -2.0 & -3.0 & -1.0 \end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

904. What is the angle between the following two vectors (in radians)? $\begin{bmatrix} -3.0 & -5.0 & 4.0 \end{bmatrix}$, $\begin{bmatrix} 2.0 & 3.0 & -3.0 \end{bmatrix}$

905. What is the angle between the following two vectors (in radians)? $\begin{bmatrix} -2.0 & 4.0 & 2.0 \end{bmatrix}$, $\begin{bmatrix} 3.0 & 2.0 & 1.0 \end{bmatrix}$

906. $\begin{bmatrix} 4.0 & 1.0 & -2.0 \end{bmatrix} + \begin{bmatrix} -2.0 & 0.0 & 3.0 \end{bmatrix}$

907. What is the relationship between the following two vectors? $\begin{bmatrix}0.0 & 2.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & 4.0 & 2.0\end{bmatrix}$ a) They point in the same direction b) they point in opposite directions c) they are perpendicular

908. $||\begin{bmatrix}1.0 & -1.0 & 4.0\end{bmatrix}||$

909. What is the vector from $\begin{bmatrix}-1.0 & -3.0 & -2.0\end{bmatrix}$ to $\begin{bmatrix}4.0 & -1.0 & -3.0\end{bmatrix}$?

910. $||\begin{bmatrix}-3.0 & -5.0 & 3.0\end{bmatrix}||$

911. $\begin{bmatrix}0.0 & -1.0 & 1.0\end{bmatrix}$ x $\begin{bmatrix}-5.0 & 2.0 & -2.0\end{bmatrix}$

912. $||\begin{bmatrix}-3.0 & 1.0 & -3.0\end{bmatrix}||$

913. $\begin{bmatrix}3.0 & 1.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & 0.0 & 4.0\end{bmatrix}$

914. What is the relationship between the following two vectors? $\begin{bmatrix}0.0 & 1.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & 3.0 & -2.0\end{bmatrix}$ a) They point in the same direction b) they point in opposite directions c) they are perpendicular

915. What is the vector from $\begin{bmatrix}-2.0 & 0.0 & 3.0\end{bmatrix}$ to $\begin{bmatrix}-4.0 & -4.0 & -1.0\end{bmatrix}$?

916. $\begin{bmatrix}-4.0 & -2.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}1.0 & -2.0 & -3.0\end{bmatrix}$

917. $\begin{bmatrix}0.0 & -4.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}4.0 & 0.0 & 2.0\end{bmatrix}$

918. normalize $\begin{bmatrix}-5.0 & 0.0 & 4.0\end{bmatrix}$

919. $\begin{bmatrix}3.0 & -2.0 & 2.0\end{bmatrix}$ x $\begin{bmatrix}3.0 & 4.0 & 0.0\end{bmatrix}$

920. $||\begin{bmatrix}0.0 & -5.0 & -4.0\end{bmatrix}||$

921. $\begin{bmatrix}1.0 & -4.0 & 3.0\end{bmatrix} \cdot \begin{bmatrix}4.0 & -3.0 & -1.0\end{bmatrix}$

922. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-2.0 & -1.0 & 1.0\end{bmatrix}$, $\begin{bmatrix}0.0 & -5.0 & -5.0\end{bmatrix}$

923. $\begin{bmatrix}4.0 & -2.0 & 3.0\end{bmatrix}$ x $\begin{bmatrix}-4.0 & 2.0 & -4.0\end{bmatrix}$

924. What is the relationship between the following two vectors? $\begin{bmatrix}3.0 & 4.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}3.0 & 1.0 & 1.0\end{bmatrix}$ a) They point in the same direction b) they point in opposite directions c) they are perpendicular

925. $\begin{bmatrix}0.0 & 2.0 & -3.0\end{bmatrix} \cdot \begin{bmatrix}-3.0 & -1.0 & -5.0\end{bmatrix}$

926. What is the vector from $\begin{bmatrix}-3.0 & -4.0 & -4.0\end{bmatrix}$ to $\begin{bmatrix}1.0 & -1.0 & 0.0\end{bmatrix}$?

927. $\begin{bmatrix}1.0 & -2.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}1.0 & 2.0 & 0.0\end{bmatrix}$

928. $||\begin{bmatrix}-2.0 & 1.0 & -3.0\end{bmatrix}||$

929. $\begin{bmatrix}-1.0 & 3.0 & -2.0\end{bmatrix}$ x $\begin{bmatrix}2.0 & -1.0 & 3.0\end{bmatrix}$

930. $\begin{bmatrix}-3.0 & -2.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & 4.0 & -1.0\end{bmatrix}$

931. $\begin{bmatrix}4.0 & 4.0 & -3.0\end{bmatrix} + \begin{bmatrix}-2.0 & 4.0 & 0.0\end{bmatrix}$

932. $\begin{bmatrix}-5.0 & 1.0 & -4.0\end{bmatrix}$ x $\begin{bmatrix}-3.0 & -1.0 & 1.0\end{bmatrix}$

933. normalize $\begin{bmatrix}3.0 & 4.0 & 2.0\end{bmatrix}$

934. normalize $\begin{bmatrix}-5.0 & -2.0 & -4.0\end{bmatrix}$

935. $\begin{bmatrix}4.0 & -4.0 & -3.0\end{bmatrix} + \begin{bmatrix}0.0 & 2.0 & 1.0\end{bmatrix}$

936. What is the relationship between the following two vectors? $\begin{bmatrix}0.0 & 0.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}3.0 & -2.0 & -2.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

937. normalize $\begin{bmatrix}-2.0 & -3.0 & -3.0\end{bmatrix}$

938. $\begin{bmatrix}-3.0 & -3.0 & 2.0\end{bmatrix} + \begin{bmatrix}4.0 & 1.0 & 3.0\end{bmatrix}$

939. $\begin{bmatrix}4.0 & -5.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}2.0 & 3.0 & -2.0\end{bmatrix}$

940. $\begin{bmatrix}2.0 & 0.0 & 0.0\end{bmatrix}$ x $\begin{bmatrix}0.0 & -5.0 & 1.0\end{bmatrix}$

941. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & -4.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & -1.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

942. $\begin{bmatrix}1.0 & 2.0 & 2.0\end{bmatrix}$ x $\begin{bmatrix}-1.0 & -5.0 & -3.0\end{bmatrix}$

943. $\begin{bmatrix}3.0 & 3.0 & -5.0\end{bmatrix} + \begin{bmatrix}3.0 & 3.0 & 1.0\end{bmatrix}$

944. What is the relationship between the following two vectors? $\begin{bmatrix}3.0 & -3.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}3.0 & -5.0 & -5.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

945. $\begin{bmatrix}-2.0 & -3.0 & -3.0\end{bmatrix}$ x $\begin{bmatrix}-3.0 & -4.0 & -5.0\end{bmatrix}$

946. $\begin{bmatrix}-2.0 & -3.0 & 0.0\end{bmatrix}$ x $\begin{bmatrix}4.0 & -5.0 & 1.0\end{bmatrix}$

947. $\begin{bmatrix}1.0 & -4.0 & 4.0\end{bmatrix} \cdot \begin{bmatrix}-4.0 & -4.0 & -5.0\end{bmatrix}$

948. What is the vector from $\begin{bmatrix}4.0 & -2.0 & 3.0\end{bmatrix}$ to $\begin{bmatrix}-1.0 & -2.0 & 1.0\end{bmatrix}$?

949. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & -3.0 & 1.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & 3.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

950. $||\begin{bmatrix}0.0 & -5.0 & 3.0\end{bmatrix}||$

951. What is the vector from $\begin{bmatrix}-5.0 & 2.0 & -5.0\end{bmatrix}$ to $\begin{bmatrix}3.0 & 2.0 & 2.0\end{bmatrix}$?

952. What is the vector from $\begin{bmatrix}-4.0 & -2.0 & 3.0\end{bmatrix}$ to $\begin{bmatrix}4.0 & -1.0 & -1.0\end{bmatrix}$?

953. $\begin{bmatrix}-5.0 & -1.0 & 2.0\end{bmatrix} \cdot \begin{bmatrix}0.0 & 3.0 & 4.0\end{bmatrix}$

954. What is the relationship between the following two vectors? $\begin{bmatrix}-4.0 & 0.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}0.0 & -1.0 & -5.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

955. $\begin{bmatrix}-2.0 & 3.0 & -4.0\end{bmatrix}$ x $\begin{bmatrix}-4.0 & -3.0 & -3.0\end{bmatrix}$

956. What is the relationship between the following two vectors? $\begin{bmatrix}4.0 & 3.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}2.0 & 4.0 & -4.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

957. $||\begin{bmatrix}-2.0 & 2.0 & -3.0\end{bmatrix}||$

958. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}-3.0 & -5.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & -3.0 & 0.0\end{bmatrix}$

959. $\begin{bmatrix}2.0 & 0.0 & 0.0\end{bmatrix} \cdot \begin{bmatrix}-4.0 & -3.0 & -1.0\end{bmatrix}$

960. normalize $\begin{bmatrix}-2.0 & -5.0 & 2.0\end{bmatrix}$

961. $\begin{bmatrix}-2.0 & 3.0 & 3.0\end{bmatrix} + \begin{bmatrix}-1.0 & -1.0 & 1.0\end{bmatrix}$

962. $\begin{bmatrix}1.0 & -3.0 & -4.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & 1.0 & 4.0\end{bmatrix}$

963. What is the relationship between the following two vectors? $\begin{bmatrix}-5.0 & 4.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}4.0 & 1.0 & 3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

964. What is the vector from $\begin{bmatrix}0.0 & -5.0 & 4.0\end{bmatrix}$ to $\begin{bmatrix}3.0 & 3.0 & -3.0\end{bmatrix}$?

965. $\begin{bmatrix}-1.0 & 4.0 & -1.0\end{bmatrix}$ x $\begin{bmatrix}0.0 & -3.0 & -1.0\end{bmatrix}$

966. What is the vector from $\begin{bmatrix}-1.0 & 0.0 & -2.0\end{bmatrix}$ to $\begin{bmatrix}2.0 & 1.0 & 0.0\end{bmatrix}$?

967. $\begin{bmatrix}1.0 & 1.0 & -4.0\end{bmatrix}$ x $\begin{bmatrix}0.0 & -1.0 & 0.0\end{bmatrix}$

968. What is the vector from $\begin{bmatrix}4.0 & -4.0 & -2.0\end{bmatrix}$ to $\begin{bmatrix}-3.0 & 2.0 & 1.0\end{bmatrix}$?

969. $\begin{bmatrix}-2.0 & -4.0 & 2.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & -2.0 & -1.0\end{bmatrix}$

970. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}0.0 & -4.0 & -4.0\end{bmatrix}$, $\begin{bmatrix}-3.0 & -5.0 & 2.0\end{bmatrix}$

971. What is the relationship between the following two vectors? $\begin{bmatrix}0.0 & -3.0 & 3.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & 2.0 & -3.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

972. $\begin{bmatrix}1.0 & 1.0 & 4.0\end{bmatrix} \cdot \begin{bmatrix}4.0 & 1.0 & 2.0\end{bmatrix}$

973. $||\begin{bmatrix}3.0 & -3.0 & -2.0\end{bmatrix}||$

974. $\begin{bmatrix}2.0 & -4.0 & 0.0\end{bmatrix} \cdot \begin{bmatrix}-1.0 & 0.0 & 2.0\end{bmatrix}$

975. $\begin{bmatrix}-4.0 & -4.0 & 2.0\end{bmatrix} + \begin{bmatrix}-3.0 & 2.0 & 0.0\end{bmatrix}$

976. What is the relationship between the following two vectors? $\begin{bmatrix}4.0 & 0.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}-4.0 & 0.0 & 0.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

977. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}3.0 & 4.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & -2.0 & -4.0\end{bmatrix}$

978. $||\begin{bmatrix}3.0 & -3.0 & 1.0\end{bmatrix}||$

979. $\begin{bmatrix}-5.0 & -5.0 & -5.0\end{bmatrix}$ x $\begin{bmatrix}2.0 & -4.0 & -4.0\end{bmatrix}$

980. What is the relationship between the following two vectors? $\begin{bmatrix}1.0 & -3.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}3.0 & 1.0 & 1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

981. What is the vector from $\begin{bmatrix}-1.0 & 3.0 & -4.0\end{bmatrix}$ to $\begin{bmatrix}3.0 & 2.0 & 3.0\end{bmatrix}$?

982. $||\begin{bmatrix}-3.0 & -5.0 & 0.0\end{bmatrix}||$

983. What is the relationship between the following two vectors? $\begin{bmatrix}-2.0 & 2.0 & 2.0\end{bmatrix}$, $\begin{bmatrix}-5.0 & 3.0 & -5.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

984. What is the vector from $\begin{bmatrix}-4.0 & -2.0 & -4.0\end{bmatrix}$ to $\begin{bmatrix}2.0 & 1.0 & 1.0\end{bmatrix}$?

985. $||\begin{bmatrix}3.0 & 3.0 & 1.0\end{bmatrix}||$

986. $||\begin{bmatrix}1.0 & 4.0 & 0.0\end{bmatrix}||$

987. normalize $\begin{bmatrix}-4.0 & 0.0 & -2.0\end{bmatrix}$

988. $\begin{bmatrix}-2.0 & -4.0 & 3.0\end{bmatrix} + \begin{bmatrix}-1.0 & 4.0 & -5.0\end{bmatrix}$

989. What is the relationship between the following two vectors? $\begin{bmatrix}0.0 & -1.0 & -2.0\end{bmatrix}$, $\begin{bmatrix}-1.0 & 2.0 & 1.0\end{bmatrix}$
a) They point in the same direction b) they point in opposite directions c) they are perpendicular

990. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}2.0 & 3.0 & -5.0\end{bmatrix}$, $\begin{bmatrix}4.0 & -1.0 & -1.0\end{bmatrix}$

991. normalize $\begin{bmatrix}3.0 & 1.0 & -5.0\end{bmatrix}$

992. $||\begin{bmatrix}2.0 & 1.0 & 0.0\end{bmatrix}||$

993. normalize $\begin{bmatrix}-1.0 & -1.0 & 4.0\end{bmatrix}$

994. $\begin{bmatrix}1.0 & -2.0 & 2.0\end{bmatrix} \cdot \begin{bmatrix}-4.0 & 0.0 & 0.0\end{bmatrix}$

995. normalize $\begin{bmatrix}-3.0 & -1.0 & 3.0\end{bmatrix}$

996. $\begin{bmatrix}-3.0 & 3.0 & -5.0\end{bmatrix} \cdot \begin{bmatrix}1.0 & 0.0 & 0.0\end{bmatrix}$

997. What is the angle between the following two vectors (in radians)? $\begin{bmatrix}3.0 & 4.0 & 0.0\end{bmatrix}$, $\begin{bmatrix}2.0 & 4.0 & -3.0\end{bmatrix}$

998. $\begin{bmatrix}-4.0 & -1.0 & 0.0\end{bmatrix}$ x $\begin{bmatrix}2.0 & -1.0 & -3.0\end{bmatrix}$

999. $\begin{bmatrix}2.0 & -1.0 & -2.0\end{bmatrix} \cdot \begin{bmatrix}-5.0 & -3.0 & -1.0\end{bmatrix}$

1000. $\begin{bmatrix}3.0 & -5.0 & -3.0\end{bmatrix}$ x $\begin{bmatrix}-3.0 & 3.0 & 3.0\end{bmatrix}$