Arc Length Problems

1) $r = 73$, $\theta = 0.82$ rad

2) $r = 31$, $\theta = 179\,°$

3) $r = 7$, $\theta = 0.64$ rad

4) $r = 50$, $\theta = 75\,°$

5) $r = 27$, $\theta = 242\,°$

6) $r = 48$, $\theta = 164\,°$

7) $r = 61$, $\theta = 1.7$ rad

8) $r = 8$, $\theta = 92\,°$

Arc Length Problems

9) $r = 38$, $\theta = 0.48$ rad

10) $r = 69$, $\theta = 267$ °

11) $r = 89$, $\theta = 1.35$ rad

12) $r = 56$, $\theta = 206$ °

13) $r = 17$, $\theta = 0.72$ rad

14) $r = 22$, $\theta = 154$ °

15) $r = 38$, $\theta = 14$ °

16) $r = 99$, $\theta = 6$ °

Arc Length Problems

17) r = 86, θ = 0.87 rad

18) r = 83, θ = 68 °

19) r = 53, θ = 156 °

20) r = 28, θ = 87 °

21) r = 27, θ = 1.3 rad

22) r = 24, θ = 0.88 rad

23) r = 60, θ = 244 °

24) r = 96, θ = 347 °

Arc Length Problems

25) r = 78, θ = 294 °

26) r = 71, θ = 0.17 rad

27) r = 58, θ = 0.43 rad

28) r = 54, θ = 0.43 rad

29) r = 87, θ = 231 °

30) r = 88, θ = 274 °

31) r = 1, θ = 350 °

32) r = 53, θ = 53 °

Arc Length Problems

33) r = 2, θ = 14 °

34) r = 5, θ = 1.56 rad

35) r = 50, θ = 0.25 rad

36) r = 14, θ = 0.33 rad

37) r = 68, θ = 0.02 rad

38) r = 57, θ = 310 °

39) r = 17, θ = 129 °

40) r = 32, θ = 0.49 rad

Arc Length Problems

41) $r = 67$, $\theta = 247°$

42) $r = 55$, $\theta = 0.35$ rad

43) $r = 87$, $\theta = 0.07$ rad

44) $r = 29$, $\theta = 328°$

45) $r = 90$, $\theta = 1.16$ rad

46) $r = 14$, $\theta = 301°$

47) $r = 35$, $\theta = 25°$

48) $r = 99$, $\theta = 65°$

Arc Length Problems

49) r = 55, θ = 1.51 rad

50) r = 17, θ = 1.45 rad

51) r = 42, θ = 1.56 rad

52) r = 2, θ = 112 °

53) r = 66, θ = 1.68 rad

54) r = 91, θ = 1.04 rad

55) r = 16, θ = 1.15 rad

56) r = 39, θ = 43 °

Arc Length Problems

57) r = 60, θ = 1.38 rad

58) r = 35, θ = 1.53 rad

59) r = 80, θ = 71 °

60) r = 51, θ = 0.07 rad

61) r = 51, θ = 145 °

62) r = 68, θ = 138 °

63) r = 35, θ = 87 °

64) r = 99, θ = 47 °

Arc Length Problems

65) r = 63, θ = 0.78 rad

66) r = 7, θ = 161 °

67) r = 99, θ = 0.51 rad

68) r = 52, θ = 214 °

69) r = 18, θ = 1.71 rad

70) r = 1, θ = 134 °

71) r = 89, θ = 0.98 rad

72) r = 84, θ = 1.85 rad

Arc Length Problems

73) $r = 67$, $\theta = 153\,^\circ$

74) $r = 29$, $\theta = 282\,^\circ$

75) $r = 85$, $\theta = 301\,^\circ$

76) $r = 98$, $\theta = 1.13$ rad

77) $r = 45$, $\theta = 0.05$ rad

78) $r = 88$, $\theta = 16\,^\circ$

79) $r = 17$, $\theta = 315\,^\circ$

80) $r = 53$, $\theta = 8\,^\circ$

Arc Length Problems

81) r = 43, θ = 129 °

82) r = 78, θ = 0.17 rad

83) r = 4, θ = 0.97 rad

84) r = 46, θ = 142 °

85) r = 22, θ = 0.7 rad

86) r = 96, θ = 254 °

87) r = 45, θ = 0.62 rad

88) r = 88, θ = 148 °

Arc Length Problems

89) $r = 80$, $\theta = 123\,°$

90) $r = 42$, $\theta = 44\,°$

91) $r = 49$, $\theta = 1.51$ rad

92) $r = 74$, $\theta = 1.67$ rad

93) $r = 100$, $\theta = 0.58$ rad

94) $r = 49$, $\theta = 0.69$ rad

95) $r = 59$, $\theta = 190\,°$

96) $r = 37$, $\theta = 0.64$ rad

Arc Length Problems

97) r = 23, θ = 1.68 rad

98) r = 56, θ = 0.79 rad

99) r = 39, θ = 0.76 rad

100) r = 69, θ = 0.8 rad