

Find the coordinates of the intersection of each pair of lines below:

1. $y = -\frac{5}{4}x - \frac{3}{4}$ and $y = -\frac{1}{2}x + \frac{3}{2}$

(-3, 3)

2. $y = -\frac{1}{5}x + \frac{39}{5}$ and $y = \frac{1}{4}x + 6$

(4, 7)

3. $y = \frac{3}{2}x + 7$ and $y = -\frac{5}{4}x + \frac{25}{2}$

(2, 10)

4. $y = -\frac{3}{2}x - 19$ and $y = \frac{2}{5}x$

(-10, -4)

$$5. \ y = -\frac{1}{2}x + 8 \text{ and } y = \frac{1}{3}x + \frac{19}{3}$$

(2, 7)

$$6. \ y = -3x - 30 \text{ and } y = \frac{5}{2}x + 25$$

(-10, 0)

$$7. \ y = \frac{2}{3}x + \frac{40}{3} \text{ and } y = \frac{1}{2}x + 12$$

(-8, 8)

$$8. \ y = -\frac{3}{4}x + 10 \text{ and } y = -\frac{5}{4}x + 10$$

(0, 10)

$$9. \ y = -\frac{5}{2}x - \frac{19}{2} \text{ and } y = -3x - 12$$

(-5, 3)

$$10. \ y = -\frac{1}{4}x - \frac{7}{4} \text{ and } y = \frac{1}{2}x - \frac{11}{2}$$

(5, -3)

$$11. \ y = \frac{5}{2}x - 10 \text{ and } y = 5x - 10$$

(0, -10)

$$12. \ y = -\frac{4}{5}x + 2 \text{ and } y = -\frac{3}{4}x + \frac{5}{2}$$

(-10, 10)

$$13. \ y = -x - 1 \text{ and } y = \frac{5}{2}x - 1$$

$$(0, -1)$$

$$14. \ y = 2x + 1 \text{ and } y = \frac{1}{3}x + \frac{8}{3}$$

$$(1, 3)$$

$$15. \ y = -5x - 17 \text{ and } y = \frac{5}{3}x - \frac{11}{3}$$

$$(-2, -7)$$

$$16. \ y = \frac{5}{2}x + 5 \text{ and } y = -\frac{1}{5}x - \frac{29}{5}$$

$$(-4, -5)$$

$$17. \ y = -2x + 23 \text{ and } y = 4x - 19$$

$$(1, 9)$$

$$18. \ y = -\frac{4}{3}x + \frac{16}{3} \text{ and } y = \frac{3}{5}x - \frac{12}{5}$$

(4, 0)

$$19. \ y = -\frac{1}{2}x + \frac{13}{2} \text{ and } y = 2x + 24$$

(-7, 10)

$$20. \ y = -\frac{1}{4}x - \frac{21}{4} \text{ and } y = \frac{3}{5}x - \frac{39}{5}$$

(3, -6)

$$21. \ y = \frac{1}{3}x - \frac{7}{3} \text{ and } y = -\frac{3}{4}x - 11$$

(-8, -5)

$$22. \ y = -\frac{4}{5}x - 10 \text{ and } y = \frac{1}{5}x - 10$$

$$(0, 10)$$

$$23. \ y = -\frac{1}{2}x + \frac{7}{2} \text{ and } y = -\frac{2}{5}x + \frac{19}{5}$$

$$(-3, 5)$$

$$24. \ y = -4x - 19 \text{ and } y = -\frac{5}{3}x - \frac{22}{3}$$

$$(-5, 1)$$

$$25. \ y = x - 4 \text{ and } y = -\frac{4}{3}x - \frac{19}{3}$$

$$(-1, -5)$$

$$26. \ y = x - 19 \text{ and } y = -\frac{2}{5}x - 5$$

$$(10, -9)$$

$$27. \ y = -\frac{1}{2}x - \frac{11}{2} \text{ and } y = -\frac{1}{4}x - \frac{17}{4}$$

$$(-5, -3)$$

$$28. \ y = -\frac{3}{2}x - \frac{5}{2} \text{ and } y = x + 10$$

$$(-5, 5)$$

$$29. \ y = \frac{3}{2}x - 12 \text{ and } y = -\frac{5}{2}x - 4$$

$$(2, -9)$$

$$30. \ y = -\frac{4}{5}x - \frac{32}{5} \text{ and } y = 4x - 16$$

$$(2, -8)$$

$$31. \ y = 3x - 15 \text{ and } y = \frac{3}{5}x - 3$$

$$(5, 0)$$

$$32. \ y = -\frac{2}{5}x - 5 \text{ and } y = \frac{4}{3}x - \frac{67}{3}$$

$$(10, -9)$$

$$33. \ y = -x + 6 \text{ and } y = -\frac{5}{4}x + \frac{33}{4}$$

$$(9, -3)$$

34. $y = \frac{1}{3}x + \frac{31}{3}$ and $y = \frac{5}{2}x + \frac{39}{2}$

$$15y = 5x + 155$$

$$2y = 5x + 39$$

$$\left(\frac{55}{13}, \frac{116}{13} \right)$$

$$\begin{aligned} & \frac{232}{13} - 39 \\ &= \frac{55}{13} \end{aligned}$$

35. $y = -x + 3$ and $y = -4x - 6$

$$(-3, 6)$$

36. $y = \frac{3}{5}x - 3$ and $y = -\frac{4}{5}x - 17$

$$(-10, -9)$$

37. $y = 5x + 21$ and $y = \frac{5}{2}x + \frac{27}{2}$

$$(-3, 6)$$

$$38. \ y = -\frac{3}{5}x - \frac{43}{5} \text{ and } y = -\frac{1}{5}x - \frac{31}{5}$$

$$(-6, -5)$$

$$39. \ y = -\frac{5}{3}x - \frac{40}{3} \text{ and } y = -4x - 32$$

$$(-8, 0)$$

$$40. \ y = -\frac{1}{2}x + 4 \text{ and } y = -\frac{5}{3}x - \frac{23}{3}$$

$$(-10, 9)$$

$$41. \ y = -4x - 30 \text{ and } y = -5x - 40$$

$$(-10, 10)$$

$$42. \ y = -\frac{1}{2}x - 3 \text{ and } y = -\frac{3}{5}x - \frac{17}{5}$$

$$(-4, -1)$$

$$43. \ y = 5x - 26 \text{ and } y = -\frac{1}{2}x + 7$$

$$(6, 4)$$

$$44. \ y = -\frac{4}{3}x + \frac{28}{3} \text{ and } y = 4x - 44$$

$$(10, -4)$$

$$45. \ y = -\frac{1}{2}x - 5 \text{ and } y = -5x - 41$$

$$(-8, -1)$$

$$46. \ y = -\frac{3}{2}x - 3 \text{ and } y = \frac{3}{5}x + \frac{27}{5}$$

$$(-4, 3)$$

$$47. \ y = -5x + 10 \text{ and } y = -\frac{5}{4}x + 10$$

$$(0, 10)$$

$$48. \ y = \frac{1}{5}x - \frac{43}{5} \text{ and } y = \frac{1}{4}x - \frac{17}{2}$$

$$(-2, -9)$$

$$49. \ y = \frac{4}{3}x + 5 \text{ and } y = -\frac{3}{2}x - \frac{41}{2}$$

$$(-9, -7)$$

$$50. \ y = -\frac{1}{5}x + \frac{49}{5} \text{ and } y = -x + 13$$

(4, 9)

$$51. \ y = -2x + 26 \text{ and } y = -\frac{2}{3}x + \frac{38}{3}$$

(10, 6)

$$52. \ y = \frac{5}{4}x + 11 \text{ and } y = \frac{3}{4}x + 9$$

(-4, 6)

$$53. \ y = \frac{2}{5}x + 4 \text{ and } y = \frac{1}{3}x + \frac{11}{3}$$

(-5, 2)

$$54. \ y = 2x - 15 \text{ and } y = -\frac{3}{2}x + 6$$

$$(6, -3)$$

$$55. \ y = -4x - 40 \text{ and } y = -\frac{4}{5}x - \frac{56}{5}$$

$$(-9, -4)$$

$$56. \ y = \frac{2}{5}x + \frac{17}{5} \text{ and } y = \frac{2}{3}x + 1$$

$$(9, 7)$$

$$57. \ y = \frac{5}{4}x + 9 \text{ and } y = -\frac{1}{2}x + 9$$

$$(0, 9)$$

$$58. \ y = -\frac{4}{3}x + \frac{31}{3} \text{ and } y = \frac{4}{3}x - \frac{49}{3}$$

$$(10, -3)$$

$$59. \ y = -5x - 47 \text{ and } y = -\frac{3}{5}x - 3$$

$$(-10, 3)$$

$$60. \ y = \frac{5}{3}x - 3 \text{ and } y = \frac{2}{3}x - 3$$

$$(0, -3)$$

$$61. \ y = -\frac{1}{5}x + \frac{21}{5} \text{ and } y = -2x - 3$$

$$(-4, 5)$$

$$62. \ y = -2x + 16 \text{ and } y = -\frac{5}{4}x + \frac{55}{4}$$

(3, 10)

$$63. \ y = -5x + 48 \text{ and } y = \frac{1}{2}x + 4$$

(8, 8)

$$64. \ y = -\frac{1}{5}x - \frac{9}{5} \text{ and } y = x - 3$$

(1, -2)

$$65. \ y = \frac{2}{5}x - \frac{47}{5} \text{ and } y = -\frac{1}{4}x - \frac{11}{2}$$

(6, -7)

$$66. \ y = -3x + 14 \text{ and } y = -\frac{5}{3}x + 6$$

$$(6, -4)$$

$$67. \ y = -\frac{1}{4}x - 1 \text{ and } y = -\frac{5}{4}x + 3$$

$$(4, -2)$$

$$68. \ y = \frac{4}{3}x - 3 \text{ and } y = -\frac{3}{4}x + \frac{19}{2}$$

$$(6, 5)$$

$$69. \ y = \frac{5}{4}x - \frac{41}{2} \text{ and } y = -\frac{4}{5}x$$

$$(10, -8)$$

$$70. \ y = 5x - 38 \text{ and } y = -2x + 4$$

$$(6, -8)$$

$$71. \ y = \frac{3}{4}x + \frac{27}{2} \text{ and } y = x + 16$$

$$(-10, 6)$$

$$72. \ y = \frac{5}{2}x \text{ and } y = \frac{1}{5}x - \frac{46}{5}$$

$$(-4, -10)$$

$$73. \ y = \frac{1}{5}x + \frac{34}{5} \text{ and } y = -\frac{4}{3}x + 16$$

$$(6, 8)$$

$$74. \ y = 2x + 24 \text{ and } y = -\frac{2}{5}x + \frac{24}{5}$$

$$(-8, 8)$$

$$75. \ y = -\frac{3}{2}x + \frac{17}{2} \text{ and } y = -\frac{3}{4}x + \frac{13}{4}$$

$$(1, -2)$$

$$76. \ y = -\frac{5}{4}x - \frac{21}{2} \text{ and } y = -5x - 33$$

$$(-6, -3)$$

$$77. \ y = x + 4 \text{ and } y = 2x + 14$$

$$(-10, -6)$$

$$78. \ y = -\frac{4}{3}x + \frac{19}{3} \text{ and } y = \frac{2}{3}x - \frac{5}{3}$$

$$(4, 1)$$

$$79. \ y = 3x + 17 \text{ and } y = -\frac{5}{2}x - \frac{43}{2}$$

$$(-7, -4)$$

$$80. \ y = \frac{3}{4}x - 4 \text{ and } y = -2x + 7$$

$$(4, -1)$$

$$81. \ y = -\frac{5}{3}x + \frac{29}{3} \text{ and } y = -\frac{1}{3}x + \frac{25}{3}$$

$$(1, 8)$$

$$82. \ y = \frac{4}{5}x - 2 \text{ and } y = -\frac{2}{3}x - 2$$

$$(0, -2)$$

$$83. \ y = -\frac{2}{3}x + \frac{16}{3} \text{ and } y = \frac{1}{5}x + \frac{31}{5}$$

$$(-1, 6)$$

$$84. \ y = -\frac{4}{5}x - \frac{47}{5} \text{ and } y = \frac{2}{3}x + \frac{7}{3}$$

$$(-8, -3)$$

$$85. \ y = -4x + 10 \text{ and } y = \frac{3}{5}x + \frac{4}{5}$$

$$(2, 2)$$

$$86. \ y = -\frac{4}{3}x - \frac{4}{3} \text{ and } y = -\frac{1}{2}x + \frac{9}{2}$$

$$(-7, 8)$$

$$87. \ y = -\frac{5}{2}x - 12 \text{ and } y = -\frac{3}{5}x - \frac{22}{5}$$

(-4, -2)

$$88. \ y = \frac{5}{4}x + 7 \text{ and } y = -\frac{5}{2}x - 8$$

(-4, 2)

$$89. \ y = \frac{5}{2}x + \frac{17}{2} \text{ and } y = 3x + 10$$

(-3, 1)

$$90. \ y = \frac{5}{4}x - \frac{73}{4} \text{ and } y = -\frac{1}{4}x - \frac{19}{4}$$

(9, -7)

$$91. \ y = -\frac{5}{3}x + \frac{40}{3} \text{ and } y = -x + 12$$

$$(2, 10)$$

$$92. \ y = -\frac{3}{2}x - 13 \text{ and } y = 4x - 2$$

$$(-2, -10)$$

$$93. \ y = -\frac{5}{2}x - 24 \text{ and } y = -\frac{1}{3}x - \frac{7}{3}$$

$$(-10, 1)$$

$$94. \ y = -\frac{5}{2}x - \frac{21}{2} \text{ and } y = 2x + 21$$

$$(-7, 7)$$

$$95. \ y = -\frac{1}{4}x - 2 \text{ and } y = \frac{4}{5}x - 2$$

$$(0, -2)$$

$$96. \ y = -\frac{1}{2}x - 5 \text{ and } y = \frac{2}{3}x - \frac{50}{3}$$

$$(10, -10)$$

$$97. \ y = -\frac{5}{3}x - 15 \text{ and } y = \frac{3}{4}x + \frac{27}{4}$$

$$(-9, 0)$$