Worksheet

Find the equation of the line in slope-intercept form given two collinear points.

1. $P_1(0, 3)$, $P_2(-4, 5)$
2. $P_1(-10, 7)$, $P_2(11, 7)$
3. $P_1(6, 12)$, $P_2(10, 7)$
4. $P_1(-6, 10)$, $P_2(-12, 1)$
5. $P_1(4, 12)$, $P_2(-6, 2)$
6. $P_1(9, 1)$, $P_2(5, 4)$
7. $P_1(4, 3)$, $P_2(10, 12)$
8. $P_1(1, 9)$, $P_2(6, 4)$
9. $P_1(-5, 2)$, $P_2(9, 11)$
10. $P_1(-10, 10)$, $P_2(-12, 2)$
11. $P_1(7, 8)$, $P_2(-12, 5)$
12. $P_1(11, 8)$, $P_2(6, 11)$
13. $P_1(-2, 0)$, $P_2(4, 2)$
14. $P_1(5, 3)$, $P_2(1, 4)$
15. $P_1(8, 2)$, $P_2(-11, 7)$
16. $P_1(7, 10)$, $P_2(8, 0)$
17. $P_1(9, 10)$, $P_2(-8, 12)$
18. $P_1(8, 10)$, $P_2(-1, 8)$
19. $P_1(-3, 2)$, $P_2(9, 10)$
20. $P_1(-10, 1)$, $P_2(2, 10)$
21. $P_1(8, 4)$, $P_2(-12, 3)$
22. $P_1(-6, 2)$, $P_2(2, 9)$
23. $P_1(-3, 1)$, $P_2(-7, 5)$
24. $P_1(-2, 10)$, $P_2(-6, 10)$
25. $P_1(-2, 7)$, $P_2(11, 3)$
26. $P_1(-4, 2)$, $P_2(-6, 7)$
27. $P_1(4, 5)$, $P_2(-4, 12)$
28. $P_1(-6, 6)$, $P_2(-5, 7)$
29. $P_1(-8, 2)$, $P_2(-12, 6)$
30. $P_1(-4, 11)$, $P_2(6, 12)$
31. $P_1(8, 11)$, $P_2(-1, 4)$
32. $P_1(7, 12)$, $P_2(12, 1)$
33. $P_1(0, 4)$, $P_2(8, 1)$
34. $P_1(-5, 5)$, $P_2(-8, 9)$
35. $P_1(11, 1)$, $P_2(-11, 12)$
36. $P_1(-11, 3)$, $P_2(11, 4)$

— Answers —

1. $y = -\frac{1}{2}x + 3$
2. $y = 7$
3. $y = -\frac{5}{4}x + \frac{39}{2}$
4. $y = \frac{3}{2}x + 19$
5. $y = x + 8$
6. $y = -\frac{3}{4}x + \frac{31}{4}$
7. $y = \frac{3}{2}x - 3$
8. $y = -x + 10$
9. $y = \frac{9}{14}x + \frac{73}{14}$
10. $y = 4x + 50$
11. $y = \frac{3}{19}x + \frac{131}{19}$
12. $y = -\frac{3}{5}x + \frac{73}{5}$
13. $y = \frac{1}{3}x + \frac{2}{3}$
14. $y = -\frac{1}{4}x + \frac{17}{4}$
15. $y = -\frac{5}{19}x + \frac{78}{19}$
16. $y = -10x + 80$
17. $y = -\frac{2}{17}x + \frac{188}{17}$
18. $y = \frac{2}{9}x + \frac{74}{9}$
19. $y = \frac{2}{3}x + 4$
20. $y = \frac{3}{4}x + \frac{17}{2}$
21. $y = \frac{1}{20}x + \frac{18}{5}$
22. $y = \frac{7}{8}x + \frac{29}{4}$
23. $y = -x - 2$
24. $y = 10$
25. $y = -\frac{4}{13}x + \frac{83}{13}$
26. $y = -\frac{5}{2}x - 8$
27. $y = -\frac{7}{8}x + \frac{17}{2}$
28. $y = x + 12$
29. $y = -x - 6$
30. $y = \frac{1}{10}x + \frac{57}{5}$
31. $y = \frac{7}{9}x + \frac{43}{9}$
32. $y = -\frac{11}{5}x + \frac{137}{5}$
33. $y = -\frac{3}{8}x + 4$
34. $y = -\frac{4}{3}x - \frac{5}{3}$
35. $y = -\frac{1}{2}x + \frac{13}{2}$
36. $y = \frac{1}{22}x + \frac{7}{2}$

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