The Equation of a Line *Fluency*

ANSWERS

Find the equation of the line through each pair of points

1 (0, 3) and (2, 7)
$y = 2x + 3$

2 (0, −1) and (3, 5)
$y = 2x - 1$

3 (0, 4) and (1, 7)
$y = 3x + 4$

4 (0, 2) and (4, 10)
$y = 2x + 2$

5 (0, −5) and (2, 1)
$y = 3x - 5$

6 (0, 6) and (3, 18)
$y = 4x + 6$

Find the equation of the line through each pair of points

7 (1, 5) and (3, 9)
$y = 2x + 3$

8 (2, 7) and (4, 15)
$y = 4x - 1$

9 (1, 1) and (3, 7)
$y = 3x - 2$

10 (2, 3) and (5, 9)
$y = 2x - 1$

11 (3, 10) and (5, 16)
$y = 3x + 1$

12 (1, −2) and (4, 10)
$y = 4x - 6$

Find the equation of the line through each pair of points

13 (0, 8) and (2, 4)
$y = -2x + 8$

14 (1, 7) and (3, 1)
$y = -3x + 10$

15 (2, 5) and (4, 1)
$y = -2x + 9$

16 (−1, 6) and (2, −3)
$y = -3x + 3$

17 (3, −2) and (5, −10)
$y = -4x + 10$

18 (−2, 9) and (1, 0)
$y = -3x + 3$

Find the equation of the line through each pair of points

19 (0, 1) and (4, 3)
$y = \frac{1}{2}x + 1$

20 (3, 5) and (9, 7)
$y = \frac{1}{3}x + 4$

21 (−2, 4) and (2, 6)
$y = \frac{1}{2}x + 5$

22 (0, −2) and (3, 0)
$y = \frac{2}{3}x - 2$

23 (4, 1) and (8, −2)
$y = -\frac{3}{4}x + 4$

24 (−3, 5) and (6, −1)
$y = -\frac{2}{3}x + 3$

Find the equation of the line parallel to each line, through the point given

25 $y = 2x + 5$ through (1, 8)
$y = 2x + 6$

26 $y = 4x - 3$ through (2, 3)
$y = 4x - 5$

27 $y = -x + 7$ through (3, 1)
$y = -x + 4$

28 $y = \frac{x}{2} + 2$ through (4, 1)
$y = \frac{1}{2}x - 1$

29 $2x + y = 6$ through (1, 5)
$y = -2x + 7$

30 $y - 3x = 4$ through (−1, 2)
$y = 3x + 5$