Points on a Straight Line *fluency*

Find y when x has the value given

1 $y = 2x + 3, x = 4$

2 $y = 3x - 1, x = 5$

3 $y = 5x, x = 6$

4 $y = x + 7, x = -2$

5 $y = 4x - 6, x = 0$

6 $y = 10 - 2x, x = 3$

Find x when y has the value given

7 $y = 3x - 2, y = 13$

8 $y = 2x + 5, y = 17$

9 $y = 4x, y = 30$

10 $y = x - 8, y = -1$

11 $y = 5x + 2, y = -8$

12 $y = 12 - 3x, y = 0$

Is the point on the line? Write yes or no.

13 (2, 7) on $y = 3x + 1$

14 (3, 1) on $y = 2x - 4$

15 (6, −1) on $y = 5 - x$

16 (0.5, 3) on $y = 4x$

17 (−2, −1) on $y = 2x + 3$

18 (4, 2) on $y = 6 - 2x$

Find where the line crosses each axis

19 $y = 2x + 6$

20 $y = 3x - 9$

21 $y = 8 - 4x$

22 $y = 5x + 10$

23 $y = 12 - 3x$

24 $y = 2x - 7$

Find the missing coordinate

25 (4, ?) on $y = 5 - 2x$

26 (?, 9) on $y = 4x + 1$

27 (?, 8) on $y = 3x - 7$

28 (1.5, ?) on $y = 2x + 0.5$

29 (?, −4) on $y = 10 - x$

30 (?, 2) on $y = 6x - 1$