

## Parallel lines Worksheet

Determine whether the graphs of the equations are parallel lines.

1.  $x + 4 = y$  and  $y - x = -3$

7.  $3x - y = -9$  and  $2y - 6x = -2$

2.  $3x - 4 = y$  and  $y - 3x = 8$

8.  $y - 6 = -6x$  and  $-2x + y = 5$

3.  $y + 3 = 6x$  and  $-6x - y = 2$

9.  $-3x + y = 4$  and  $3x - y = -6$

4.  $y = -4x + 2$  and  $-5 = -2y + 8x$

10.  $-4 = y + 2x$  and  $6x + 3y = 4$

5.  $y = 2x + 7$  and  $5y + 10x = 20$

11.  $8x - 4y = 16$  and  $5y - 10x = 3$

6.  $y = -7x - 5$  and  $2y = -7x - 10$

12.  $-4x = 3y + 5$  and  $8x + 6y = -1$

## **Parallel lines Worksheet**

Write an equation for the line containing the given point and parallel to the given line. Graph both lines on another sheet.

13. (0,6);  $y - 3x = 4$

17. (-3, 2);  $x - y = 5$

14. (-2, 4);  $y = 2x - 3$

18. (-1, -1);  $2y + 4x = 8$

15. (0, 2);  $3y - x = 0$

19. (0, 0);  $2x - y = 6$

16. (1, 0);  $2x + y = -4$

20. (-4, 5);  $3x - 2y = 6$