

T P-1 Parallel Line Retake Problems

Find the slope of a line that is parallel to each equation that is given.

1. $y = 4x + 2$

2. $y = 5 - 2x$

3. $2y = 3x - 8$

4. $6y - 5x = 0$

5. $\frac{1}{3}x - \frac{3}{8}y = 11$

6. $x = 4y + 7$

State whether the graphs of the following equations are parallel or neither.

7. $x + y = 5$

$x + y = -10$

8. $x + y = 5$

$x - y = 5$

9. $y = 2x$

$y = 2x - 4$

10. $2y + 3x = 5$

$3y - 2x = 5$

11. $3x - 8y = 11$

$3x - 6y = 10$

12. $2y + 3x = 5$

$3y + 3x = 5$

13. $\frac{1}{3}x + \frac{2}{3}y = \frac{3}{5}$
 $2x + 4y = 7$

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

Find an equation of the line that passes through each given point and is parallel to the line with the given equation.

15. $(4, 2)$ $y = 2x - 4$

16. $\left(\frac{1}{2}, \frac{1}{3}\right)$ $x + 2y = 5$

17. $(3, 1)$ $y = \frac{1}{3}x + 6$

18. $(0, 0)$ $3x - y = 4$

19. $(4, 2)$ $y = -\frac{3}{4}x - 5$

20. $(-4, 0)$ $y = -5x + 2$

21. $(4, -4)$ $y = -x - 4$

22. $(-4, -1)$ $y = -\frac{1}{2}x - 1$