

P.I. G.G.65: Find the equation of a line, given a point on the line and the equation of a line parallel to the desired line

1. Find an equation of the line that passes through the point $(1, -3)$ and is parallel to the line $8x - 4y = -4$.

[A] $8x - 4y = 20$ [B] $x - 3y = -4$

[C] $8x - 4y = -28$ [D] $8x + 4y = -4$

2. Find an equation of the line that passes through the point $(-5, 6)$ and is parallel to the line $2x - 5y = -5$.

[A] $-5x + 6y = -5$ [B] $2x + 5y = -5$

[C] $2x - 5y = -40$ [D] $2x - 5y = 37$

3. Find an equation of the line that passes through the point $(-4, -1)$ and is parallel to the line $4x - y = -1$.

[A] $4x + y = -1$ [B] $4x - y = 0$

[C] $-4x - y = -1$ [D] $4x - y = -15$

4. Find an equation of the line that passes through the point $(1, -6)$ and is parallel to the line $6x + 2y = 2$.

[A] $x - 6y = 2$ [B] $6x + 2y = -34$

[C] $6x - 2y = 2$ [D] $6x + 2y = -6$

5. Find an equation of the line that passes through the point $(-4, -5)$ and is parallel to the line $7x - 5y = -6$.

[A] $7x + 5y = -6$ [B] $-4x - 5y = -6$

[C] $7x - 5y = -15$ [D] $7x - 5y = -3$

6. Write the slope-intercept form of the equation of the line passing through the point $(-3, 0)$ and parallel to the line $y = -6x + 3$.

7. Write the slope-intercept form of the equation of the line passing through the point $(1, -1)$ and parallel to the line $y = -5x - 4$.

8. Write the slope-intercept form of the equation of the line passing through the point $(2, 0)$ and parallel to the line $y = 2x - 2$.

9. Write the slope-intercept form of the equation of the line passing through the point $(5, -1)$ and parallel to the line $y = 4x - 1$.

10. Write the slope-intercept form of the equation of the line passing through the point $(-6, 0)$ and parallel to the line $y = 3x - 6$.

[1] A

[2] C

[3] D

[4] D

[5] D

[6] $y = -6x - 18$

[7] $y = -5x + 4$

[8] $y = 2x - 4$

[9] $y = 4x - 21$

[10] $y = 3x + 18$