Point-Slope Form
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Student Practice Worksheet

Name_____Date_____Grade_____

Find a Point-Slope equation for a line containing the given point and having the given slope.

1. (4, -3), m = -1

2. (-5, -6), m = 2

3. (-7, 2), m = 3

4. (3, 5), m = -2

5. (6, -2), m = -3

6. (5, -2), m = 2

7. (7, 0), m = 4

8. (0, 9), m = -2

9. (5, -1), m = $\frac{1}{5}$

10. (-3, -2), m = $\frac{1}{4}$

(Student Worksheet Continue)

Give the Point-Slope form of the equation that passes through the given points.

11. (0, 8) and (-1, 10)

12. (-6, 8) and (4, 8)

13. (4, 5) and (-3, 8)

14. (0, 9) and (2, 0)

15. (-1, 7), (8, -2)

16. (4, 0), (0, 5)

17. (5, 7), (-1, 3)

18. (0, 0), (-4, 3)

19. (-3, -5), (3, -15)

20. $(-\frac{1}{2}, \frac{1}{2})$, $(\frac{1}{4}, \frac{3}{4})$

Point-Slope Form

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Student Practice Worksheet

Answer Key

Name_____ Date_____ Grade_____

Find a Point-Slope equation for a line containing the given point and having the given slope.

1. (4, -3), m = -1

$y + 3 = -1(x - 4)$

2. (-5, -6), m = 2

$y + 6 = 2(x + 5)$

3. (-7, 2), m = 3

$y - 2 = 3(x + 7)$

4. (3, 5), m = -2

$y - 5 = -2(x - 3)$

5. (6, -2), m = -3

$y + 2 = -3(x - 6)$

6. (5, -2), m = 2

$y + 2 = 2(x - 5)$

7. (7, 0), m = 4

$y - 0 = 4(x - 7)$ or $y = 4(x - 7)$

8. (0, 9), m = -2

$y - 9 = -2(x - 0)$ or $y - 9 = -2x$

9. (5, -1), m = $\frac{1}{5}$

$y + 1 = \frac{1}{5}(x - 5)$

10. (-3, -2), m = $\frac{1}{4}$

$y + 2 = \frac{1}{4}(x + 3)$

(Student Worksheet Continue) – Answer Key

Give the Point-Slope form of the equation that passes through the given points.

11. (0, 8) and (-1, 10)

$y - 8 = -2(x - 0)$ or $y - 8 = -2x$

12. (-6, 8) and (4, 8)

$y - 8 = 0(x + 6)$ or $y = 8$

13. (4, 5) and (-3, 8)

$y - 5 = -\frac{3}{7}(x - 4)$

14. (0, 9) and (2, 0)

$y - 9 = \frac{9}{2}(x - 0)$ or $y - 9 = \frac{9}{2}x$

15. (-1, 7), (8, -2)

$y - 7 = -(x + 1)$

16. (4, 0), (0, 5)

$y - 0 = -\frac{5}{4}(x - 4)$ or $y = -\frac{5}{4}(x - 4)$

17. (5, 7), (-1, 3)

$y - 7 = \frac{2}{3}(x - 5)$

18. (0, 0), (-4, 3)

$y - 0 = -\frac{3}{4}(x - 0)$ or $y = -\frac{3}{4}x$

19. (-3, -5), (3, -15)

$y + 5 = -\frac{5}{3}(x + 3)$

20. $(-\frac{1}{2}, \frac{1}{2})$, $(\frac{1}{4}, \frac{3}{4})$

$y - \frac{1}{2} = \frac{1}{3}(x + \frac{1}{2})$