

Standard Form of Linear Equations (A)

Write each equation in standard form. Identify the values for A, B and C.

1. $y + 2 = -5x$

2. $-9 = -4x - 7y$

3. $8y + 5 = 5x$

4. $3x = 8 - 6y$

5. $-5 = 6y + x$

6. $2x + 6 = 8y$

7. $-4y - 8x = -4$

8. $-7 = -2y - x$

9. $6y = 4x + 4$

10. $1 = -4x + 9y$

Linear Equations (A)

Point-Slope Form ($y - y_1 = m(x - x_1)$)

Write the equation of each line in point-slope form then solve for y.

1. Slope: -4 Point: $(-1,-3)$

2. Slope: $-\frac{1}{9}$ Point: $(-9,6)$

3. Slope: 3 Point: $(1,-1)$

4. Slope: $-\frac{11}{4}$ Point: $(4,-4)$

5. Slope: undefined Point: $(-4,-8)$

6. Slope: $\frac{10}{9}$ Point: $(-9,-9)$

7. Slope: $\frac{4}{7}$ Point: $(7,-3)$

8. Slope: $\frac{3}{4}$ Point: $(-4,6)$

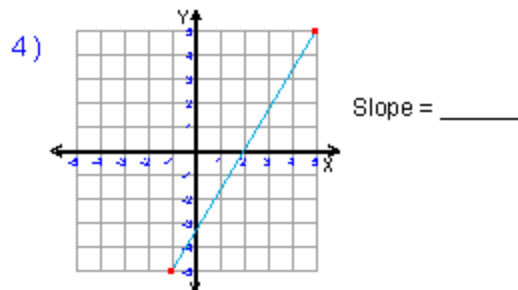
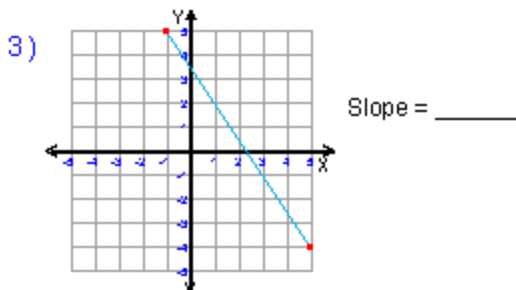
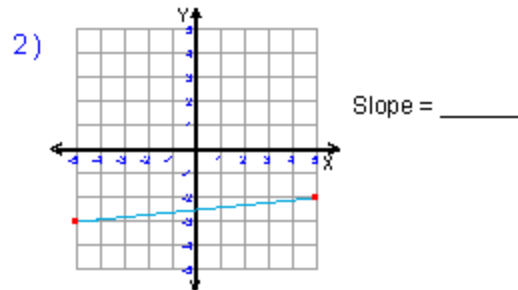
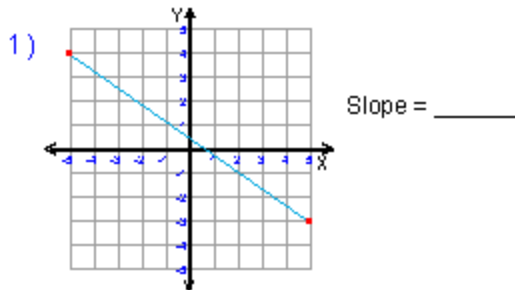
9. Slope: $-\frac{4}{3}$ Point: $(-9,5)$

10. Slope: $-\frac{13}{4}$ Point: $(4,-8)$

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What is the slope of each line ?



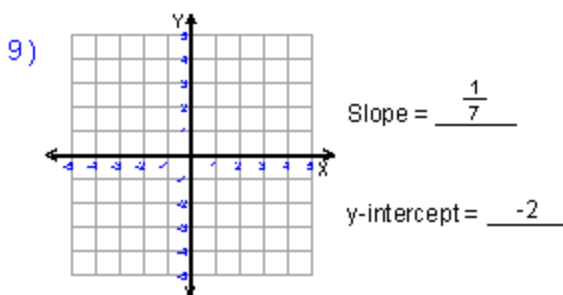
5) $y = \frac{1}{2}x - 3$ Slope = _____

6) $y = -\frac{2}{7}x + 1$ Slope = _____

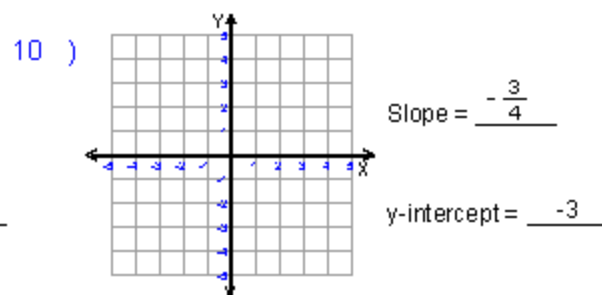
7) $y = 10x + 2$ Slope = _____

8) $y = -3x$ Slope = _____

Write the slope-intercept form and plot the equation of each line given the slope and y-intercept.



Equation : _____



Equation : _____

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Solve the Equations

Round your answers to the nearest hundredth if needed.

1) $2(2.5 + 8.5a) = -28.5$

6) $-26.5 = 8f - 9f$

2) $7(9c + 6) = 20.5 + 9.5c$

7) $-18.5 = 8 + 6(k - 7.5)$

3) $-5.5 + 3.5(1 - 9.5z) = 25.5$

8) $-2(3n + 9) = 30.5$

4) $-3(1 + 4.5r) = -17.5$

9) $19.5 = 2.5(7.5y - 9.5)$

5) $4.5v - 3v = 24.5$

10) $5s + 3.5 + 6s = 26.5$

