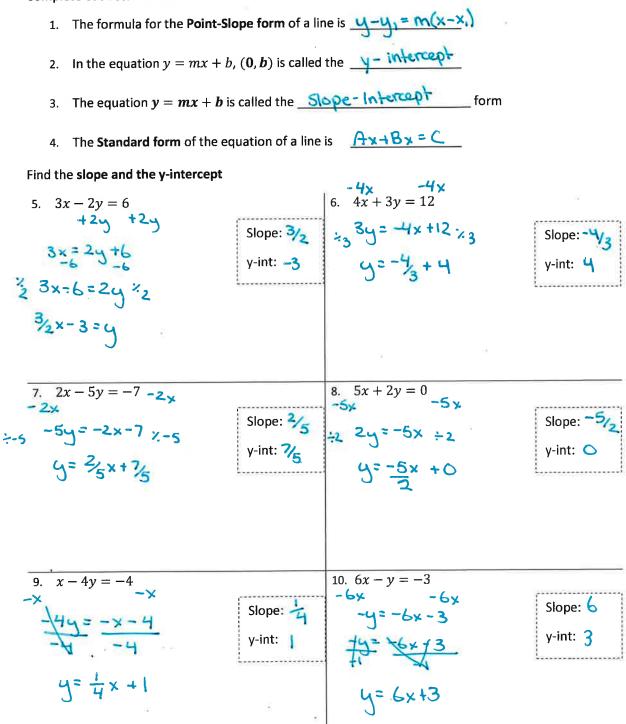
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Section 3.1a – Practice Problems

EMERGING LEVEL QUESTIONS

Complete each statement



Rewrite the Standard Form Equation in Slope-Intercept Form

11.
$$2x + y = 6$$

 $-2x - 2x$
 $y = -2x + 6$
12. $3x - y = 4$
 $-3x - 3x$
 $-y = -3x + 4$
 $+-1$
 $y = 3x - 4$
13. $4x + 3y = 12$
 $-4x - 4x$
 $3 \div -4x + 12$
 $3 \div -3$
 $y = -4x + 12$
 $3 \div -3$
 $y = -4x + 12$
 $3 \div -3$
 $y = -2x + 6$
 $\div -3$
 $y = -2x - 4$
 3
 $y = 2x - 4y$
 $y = 2x - 4y$

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Rewrite the Slope-Intercept Equation in Standard Form $A \times B = C$

17. y = -2x + 1+2x +2x 2x +y=1

18.
$$y = 3x - 1$$

 $-3x - 3x$ no negative A value
 $-5x + y = -1$
 $\div -1$
 $3x - y = 1$

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19.
$$y = 3x$$

 $-y - y$
 $3x - y = 0$
20. $y = -\frac{2}{3}x + 1$
 $+\frac{2}{3}x$
 $\frac{2}{3}x + y = 1$
 $-2cannot have (molliply by 3)$
 $2x + 3y = 3$
21. $y = \frac{3}{4}x + 5$
 $-\frac{3}{4}x + \frac{3}{4}x$
 $-\frac{3}{4}x + y = 5$
 $3x - 4y = -20$
22. $y = -\frac{2}{5}x + \frac{1}{2}$
 $+\frac{3}{5}x + \frac{3}{5}x$
 $\frac{2}{5}x + y = \frac{1}{2}$
 $-5 - 5$
 $2x + 5y = \frac{5}{2}x$
 $\frac{2}{5}x + \frac{1}{2} + \frac{1}{2}$
 $-5 - 5$
 $2x + 5y = \frac{5}{2}x$
 $\frac{2}{5}x + \frac{1}{2} + \frac{1}{2}$
 $-5 - 5$
 $2x + 5y = \frac{5}{2}x$
 $\frac{2}{5}x + \frac{1}{2} + \frac{1}{2}$
 $-5 - 5$
 $2x + 5y = \frac{5}{2}x$

PROFICIENT LEVEL QUESTIONS

Rewrite the Point-Slope Equation in Slope-Intercept Form

23.
$$y - 2 = 3(x + 1)$$

 $y - 2 = 3x + 3$
 $y = 3x + 3 + 2$
 $y = 3x + 5$
 $y = -2(x - 1)$
 $y + 4 = -2(x - 1)$
 $y = -2x + 2$
 $y = -2x + 2 - 4$
 $y = -2x - 2$

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25.
$$y - 1 = \frac{1}{3}(x + 2)$$

 $y - 1 = \frac{1}{3}x + \frac{2}{3}$
 $y = \frac{1}{3}x + \frac{2}{3} + 1$
 $y = \frac{1}{3}x + \frac{2}{3} + \frac{3}{3}$
 $y = \frac{1}{3}x + \frac{2}{3} + \frac{3}{3}$
 $y = \frac{1}{3}x + \frac{2}{3} + \frac{3}{3}$
 $y = \frac{1}{3}x + \frac{2}{3}$
 $y = \frac{1}{3}x - 2$
 $y = \frac{1}{3}x - 2$
 $y = \frac{1}{3}x - 2$
 $y = \frac{1}{3}x + \frac{1}{3} + \frac{1}{3}$
 $y = \frac{1}{3}x - \frac{6}{3} + \frac{2}{3}$
 $y = \frac{1}{3}x - \frac{6}{3} + \frac{2}{3}$
 $y = \frac{1}{3}x + \frac{4}{3} + \frac{1}{3}$
 $y = \frac{1}{3}x + \frac{4}{3} + \frac{1}{3}$
 $y = \frac{1}{3}x + \frac{4}{3} + \frac{3}{12}$
 $y = \frac{1}{3}x + \frac{7}{12}$

Rewrite the Point-Slope Equation in Standard Form $A \times + By = C$ 29. y - 2 = 3(x + 1) y - 2 = 3x + 3 -2 = 3x - y + 3 -5 = 3x - y3x - y = -5

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31.
$$y-1 = \frac{1}{3}(x+2)$$

 $y-3 = \frac{1}{3}x+2\frac{3}{3}$
3 $y-3 = x+2$
 $-3y - 3y$
 $-3y$
 -2
 $33. y-\frac{2}{3} = \frac{1}{4}(x-8)$
 $\begin{bmatrix} y-\frac{2}{3} = \frac{1}{4}x-2 \end{bmatrix}^{x^{1/2}}$
 $[2y-\frac{1}{3} = \frac{1}{4}x-2 \end{bmatrix}^{x^{1/2}}$
 $[2y-\frac{1}{4} = \frac{1}{2}(x+\frac{2}{3})]$
 $[2y-\frac{1}{4} = \frac{1}{2}x+\frac{1}{3}]$
 $[3x-\frac{1}{2}y=\frac{1}{6}]$
 $-3 = 6x-\frac{1}{2}y+\frac{1}{4}$
 $-7 = 6x-\frac{1}{2}y$

EMERGING LEVEL QUESTIONS

Write the equation of each line in **slope-intercept form**

35. (0,2);
$$m = 2$$

y-t
 $y = mx + b$
 $y = 2x + 2$

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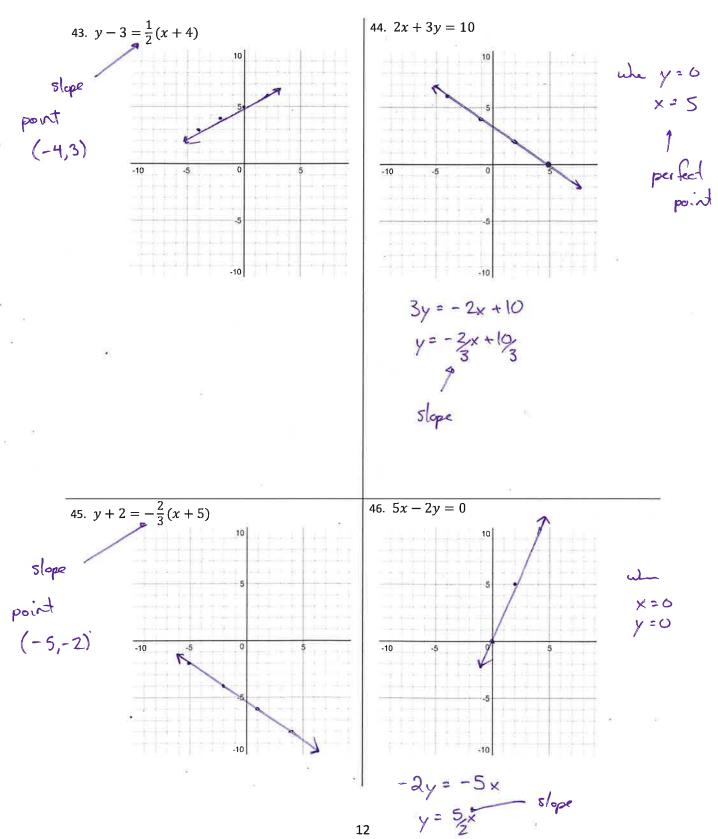
37. (0, 3):
$$m = 0$$

 f
 $y = 1$
 $y = 3$
38. $(0, -2): m = -\frac{2}{3}$
 $y = -\frac{2}{3}$
 $y = -\frac{2}{3}$
 $y = -\frac{2}{3}$
40. $(0, 2.3): m = 0.4$
 $y = -\frac{2}{3}$
40. $(0, 2.3): m = 0.4$
 $y = -\frac{2}{3}x - \frac{1}{2}$
Graph the Linear Equations
41. $4x - 3y = 12$
 $y = 0$
 $y = -\frac{2}{3}x + 4$
 $y = -\frac{2}$

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PROFICIENT LEVEL QUESTIONS



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