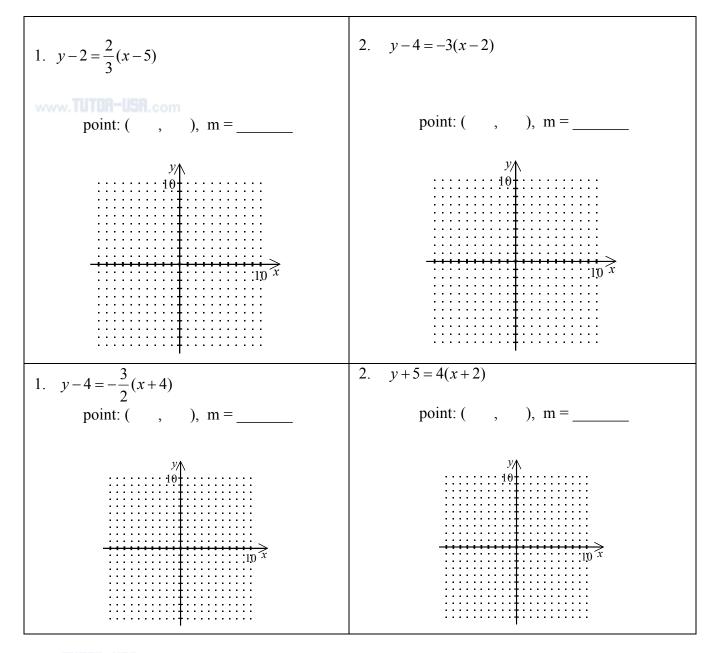
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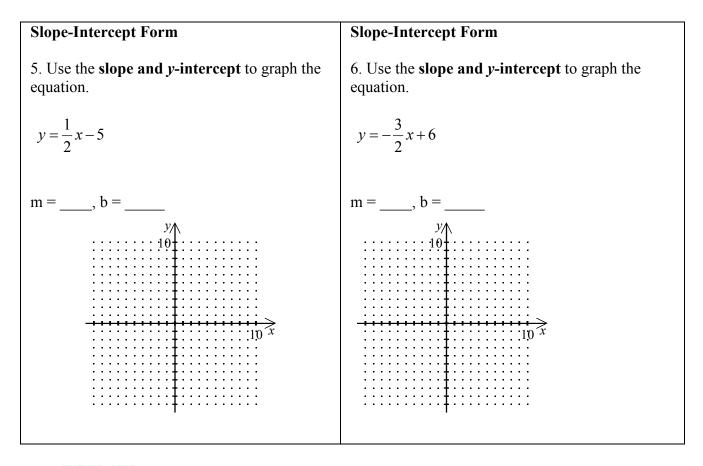
Algebra – Slope

| Slope-Intercept Form | Standard Form | Point-Slope Form |
|--|----------------------------|--|
| y = mx + b | Ax + By = C | $(y - y_1) = m(x - x_1)$ |
| <i>m</i> is the slope and <i>b</i> is the <i>y</i> -intercept. | A and B are not both 0. | (x_1, y_1) lies on the graph of the equation, and <i>m</i> is the slope. |
| Examples | | |
| $y = -\frac{2}{3}x + \frac{5}{3}$ | 2x + 3y = 5 | $y - 1 = -\frac{2}{3}(x - 1)$ |

In 1-4, each equation is in point-slope form. Identify the point and slope of each equation and use them to graph a line.



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| Standard Form | Standard Form |
|--|---|
| 7. Graph the equation using <i>x</i> - and <i>y</i> - intercepts. 3x + 7y = 21 | 8. Graph the equation using <i>x</i> - and <i>y</i> -intercepts. -5x + 7y = 35 |
| x-intercept:, y-intercept: | x-intercept:, y-intercept: $\downarrow \downarrow \uparrow \uparrow \uparrow$ |

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