

Intermediate Algebra Skill

Graphing Lines; Identifying Intercepts and Slope

A) Sketch the graph, identify the x and y intercepts and find the slope:

1) $x + 3y = 12$

2) $x + 4y = 8$

3) $x + 5y = 0$

4) $7x - 2y = 4$

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

6) $y = 4x - 3$

7) $y = -9x + 5$

8) $5y + 25 - 3x = 0$

9) $-1 - \frac{1}{4}y = 0$

10) $-2 + 3x = 0$

B) Find the slope of the line containing these points:

11) $(-17, 0), (-17, 17)$

12) $(-4, 2), (-14, -4)$

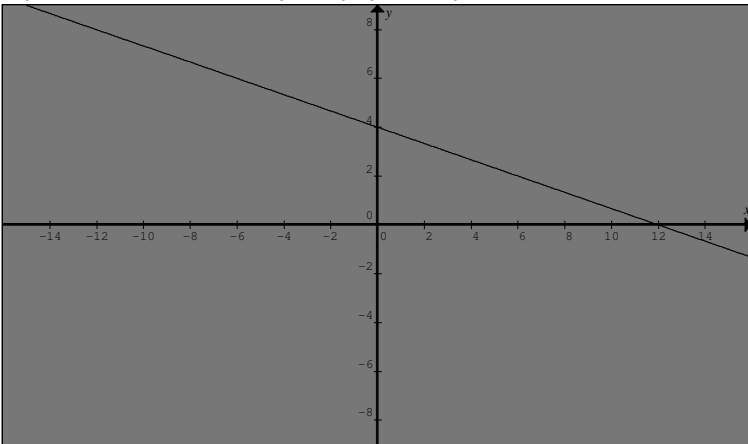
13) $(-9, -15), (10, -20)$

14) $(-8, -3), (2, -4)$

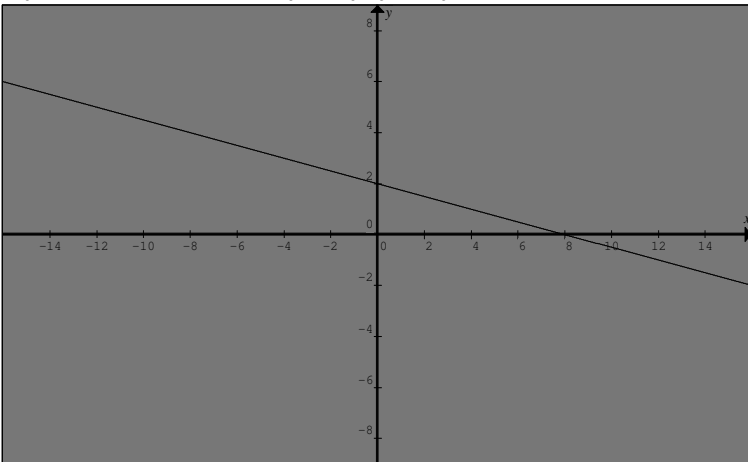
15) $(-7, -8), (-9, -4)$

Answers to Graphing Lines; Identifying Intercepts and Slope

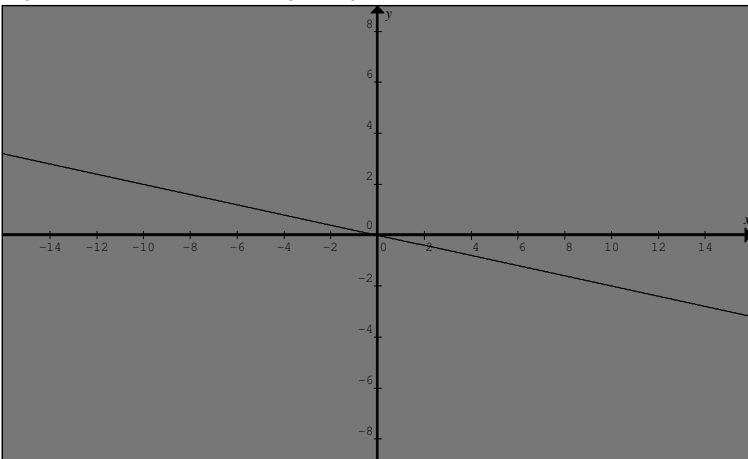
1) $m = -1/3$; int = $(0,4), (12,0)$



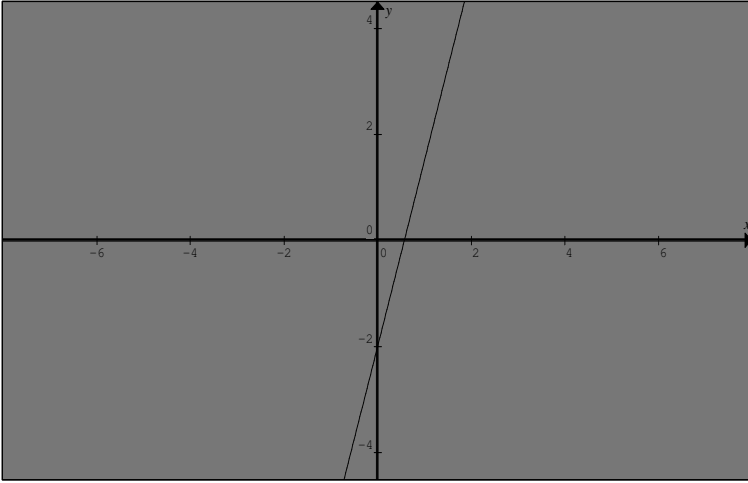
2) $m = -1/4$; int = $(0,2), (8,0)$



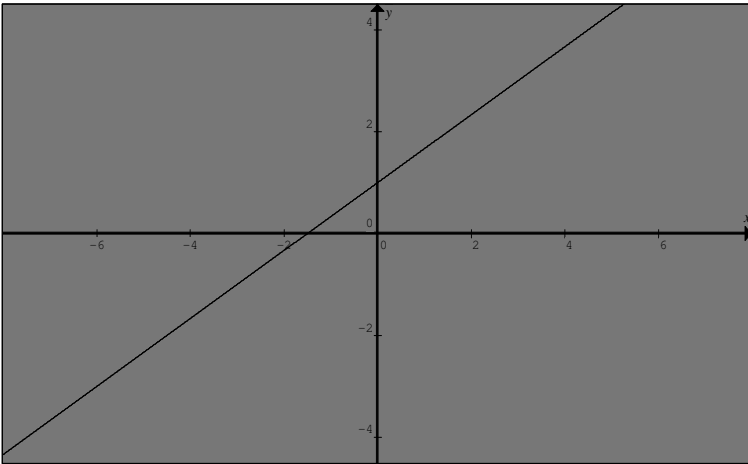
3) $m = -1/5$; int = $(0,0)$



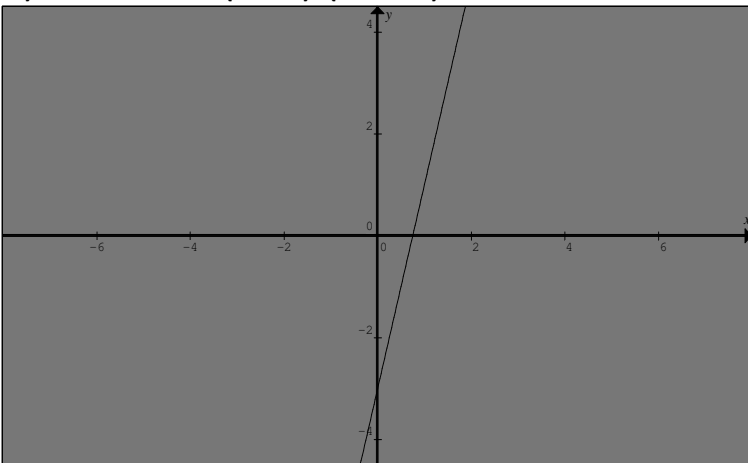
4) $m = 7/2$; int = $(0, -2), (4/7, 0)$



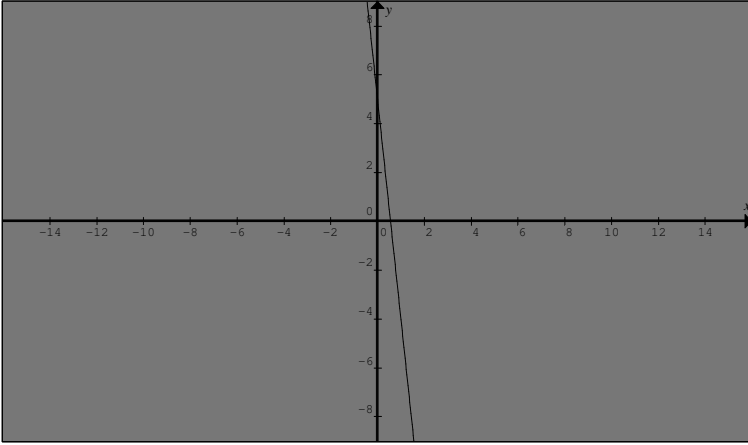
5) $m = 2/3$; int = $(0, 1), (-3/2, 0)$



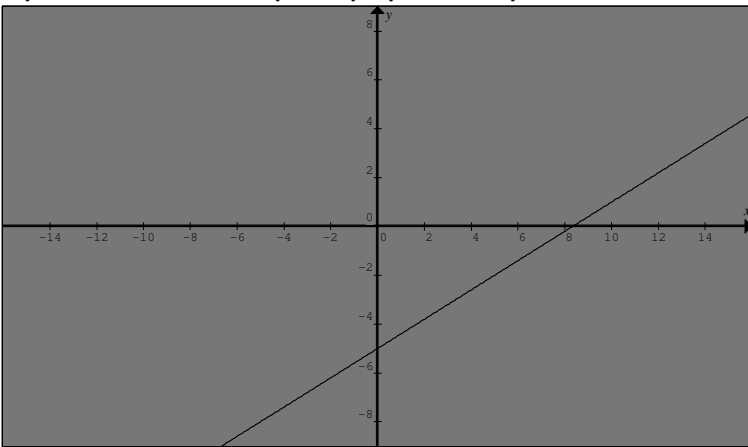
6) $m = 4$; int = $(0, -3), (3/4, 0)$



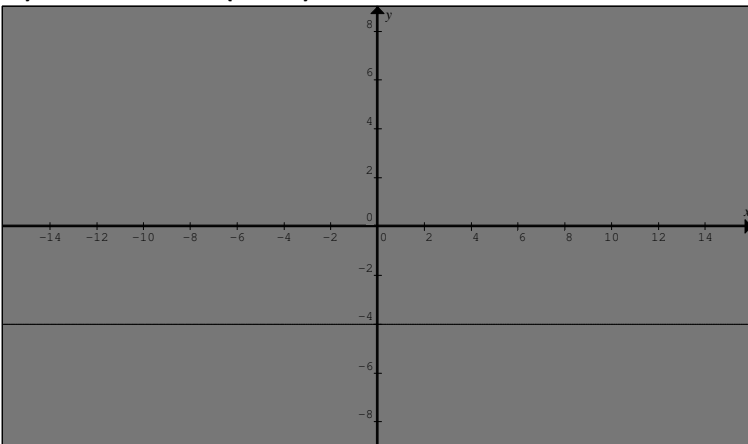
7) $m = -9$; int = $(0, 5)$, $(5/9, 0)$



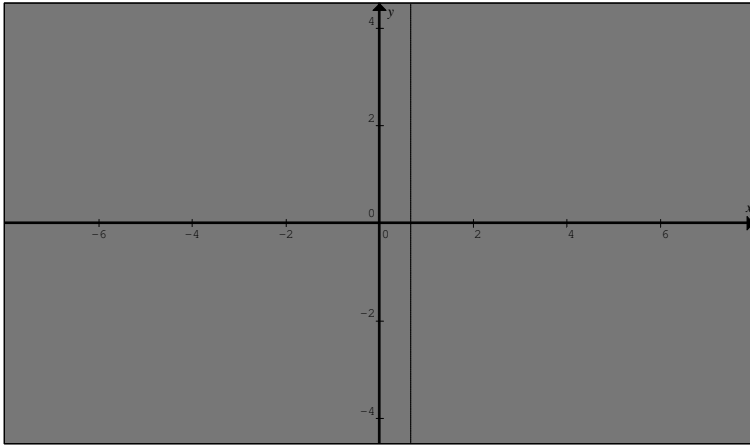
8) $m = 3/5$; int = $(0, -5)$, $(25/3, 0)$



9) $m = 0$; int = $(0, -4)$



10) $m = \text{undefined}; \text{int} = (2/3, 0)$



11) $m = \text{undefined}$

12) $m = 3/5$

13) $m = -5/19$

14) $m = -1/10$

15) $m = -2$