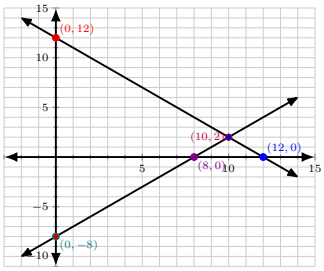
Activity 1.8.1: Graphing Systems of Linear Equations

Total points = 94

Answers

1. $x + y = 12$ ✓
$x + 0 = 12$ ✓
$x = 12$ ✓
$a = 12$ ✓
$0 + y = 12$ ✓
$y = 12$ ✓
$b = 12$ ✓
$x - y = 8$ ✓

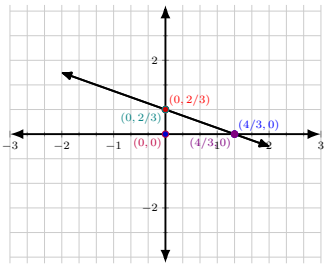
$x - 0 = 8$ ✓
$x = 8$ ✓
$a = 8$ ✓
$0 - y = 8$ ✓
$-y = 8$ ✓
$y = -8$ ✓
$b = -8$ ✓



✓✓✓

2. $3x + 6y = 4$ ✓
$3x + 6(0) = 4$ ✓
$\frac{3x}{3} = \frac{4}{3}$ ✓
$x = \frac{4}{3}$ ✓
$a = \frac{4}{3}$ ✓
$3(0) + 6y = 4$ ✓
$\frac{6y}{6} = \frac{4}{6}$ ✓
$y = \frac{2}{3}$ ✓
$b = \frac{2}{3}$ ✓

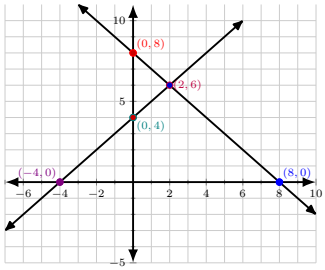
$6x + 12y = 8$ ✓
$6x + 12(0) = 8$ ✓
$\frac{6x}{6} = \frac{8}{6}$ ✓
$x = \frac{4}{3}$ ✓
$a = \frac{4}{3}$ ✓
$6(0) + 12y = 8$ ✓
$\frac{12y}{12} = \frac{8}{12}$ ✓
$y = \frac{2}{3}$ ✓
$b = \frac{2}{3}$ ✓



✓✓✓

3. $8 = x + y$ ✓
$8 = x + 0$ ✓
$8 = x$ ✓
$a = 8$ ✓
$8 = 0 + y$ ✓
$8 = y$ ✓
$b = 8$ ✓
$-4 = x - y$ ✓

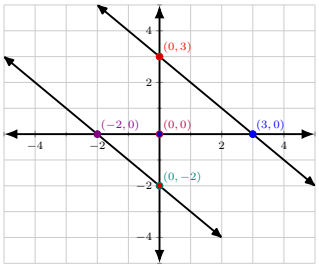
$-4 = x - 0$ ✓
$-4 = x$ ✓
$a = -4$ ✓
$-4 = 0 - y$ ✓
$-1\,[-4 = -y]$ ✓
$y = 4$ ✓
$b = 4$ ✓



✓✓✓

4. $x + y = 3$ ✓
$x + 0 = 3$ ✓
$x = 3$ ✓
$a = 3$ ✓
$0 + y = 3$ ✓
$y = 3$ ✓
$b = 3$ ✓
$x + y = -2$ ✓

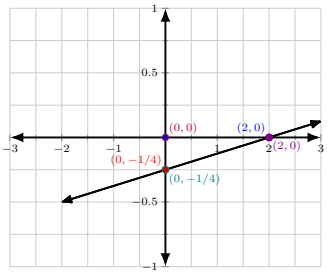
$x + 0 = -2$ ✓
$x = -2$ ✓
$a = -2$ ✓
$0 + y = -2$ ✓
$y = -2$ ✓
$b = -2$ ✓



✓✓✓

5. $x - 8y = 2$ ✓
$x - 8(0) = 2$ ✓
$x = 2$ ✓
$a = 2$ ✓
$0 - 8y = 2$ ✓
$\frac{-8y}{-8} = \frac{2}{-8}$ ✓
$y = -\frac{1}{4}$ ✓
$b = -\frac{1}{4}$ ✓
$3x - 24y = 6$ ✓

$3x - 24(0) = 6$ ✓
$\frac{3x}{3} = \frac{6}{3}$ ✓
$x = 2$ ✓
$a = 2$ ✓
$3(0) - 24y = 6$ ✓
$\frac{-24y}{-24} = \frac{6}{-24}$ ✓
$y = -\frac{1}{4}$ ✓
$b = -\frac{1}{4}$ ✓



✓✓✓

Typeset by Jonathan Rufo Bacolod using LaTeX

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$\frac{3x}{3} = \frac{6}{3}$ ✓
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$a = 2$ ✓
$3(0) - 24y = 6$ ✓
$\frac{-24y}{-24} = \frac{6}{-24}$ ✓
$y = -\frac{1}{4}$ ✓
$b = -\frac{1}{4}$ ✓

✓✓✓