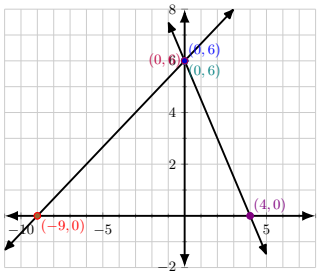
Activity 1.8.3: Solving Systems of Linear Equations by Graphing

Total points = 53

Answers

1. $y = \frac{2}{3}x + 6$ ✓ $\quad y = -\frac{3}{2}x + 6$ ✓
$m = \frac{2}{3}, b = 6$ ✓ $\quad m = -\frac{3}{2}, b = 6$ ✓

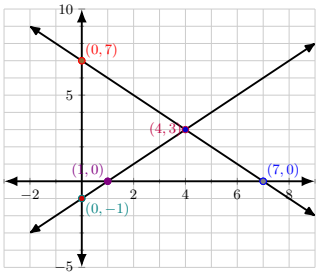


✓✓✓

$\therefore$ Sol. $= \{(0, 6)\}$ ✓

2. $x + y = 7$ ✓
$\frac{x}{7} + \frac{y}{7} = \frac{7}{7}$ ✓
$\frac{x}{7} + \frac{y}{7} = 1$ ✓
$a = 7, b = 7$ ✓

$x - y = 1$ ✓
$\frac{x}{1} + \frac{y}{-1} = 1$ ✓
$a = 1, b = -1$ ✓

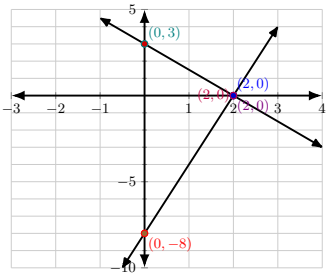


✓✓✓

$\therefore$ Sol. $= \{(4, 3)\}$ ✓

3. $4x - y = 8$ ✓
$\frac{4x}{8} - \frac{y}{8} = \frac{8}{8}$ ✓
$\frac{x}{2} + \frac{y}{-8} = 1$ ✓
$a = 2, b = -8$ ✓

$3x + 2y = 6$ ✓
$\frac{3x}{6} + \frac{2y}{6} = \frac{6}{6}$ ✓
$\frac{x}{2} + \frac{y}{3} = 1$ ✓
$a = 2, b = 3$ ✓

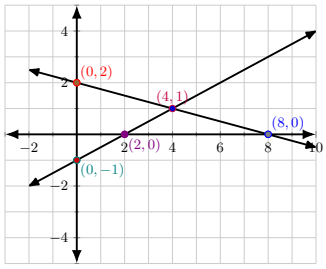


✓✓✓

$\therefore$ Sol. $= \{(2, 0)\}$ ✓

4. $x + 4y = 8$ ✓
$\frac{x}{8} + \frac{4y}{8} = \frac{8}{8}$ ✓
$\frac{x}{8} + \frac{y}{2} = 1$ ✓
$a = 8, b = 2$ ✓

$x - 2y = 2$ ✓
$\frac{x}{2} - \frac{2y}{2} = \frac{2}{2}$ ✓
$\frac{x}{2} + \frac{y}{-1} = 1$ ✓
$a = 2, b = -1$ ✓

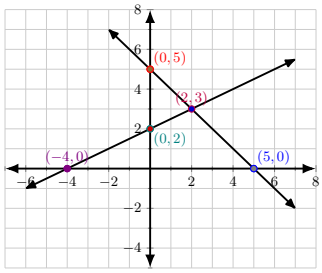


✓✓✓

$\therefore$ Sol. $= \{(4, 1)\}$ ✓

5. $x + y = 5$ ✓
$\frac{x}{5} + \frac{y}{5} = \frac{5}{5}$ ✓
$\frac{x}{5} + \frac{y}{5} = 1$ ✓
$a = 5, b = 5$ ✓

$y = \frac{1}{2}x + 2$ ✓
$m = \frac{1}{2}, b = 2$ ✓



✓✓✓

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Typeset by Jonathan Rufo Bacolod using LaTeX

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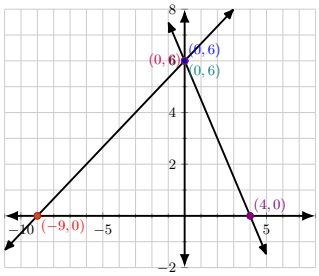

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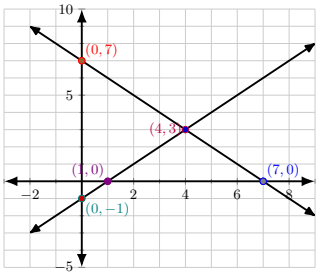

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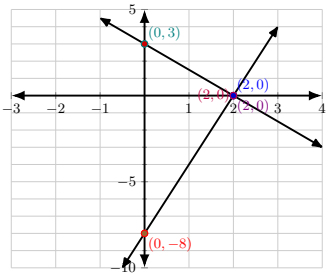

✓✓✓

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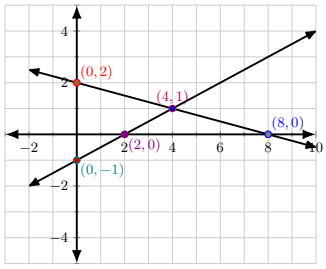

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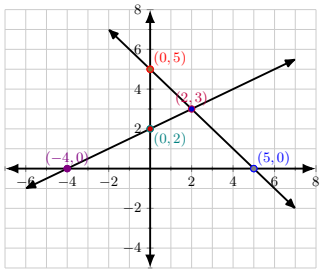

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