

Total points = 49

1. $y = -2x + 6$ ✓
 $2x + y = -2x + 2x + 6$ ✓
 $2x + y = 6$ ✓
2. $y = 3x - 8$ ✓
 $-3x + y = 3x - 3x - 8$ ✓
 $-1[-3x + y = -8]$ ✓
 $3x - y = 8$ ✓
3. $y = \frac{1}{2}x + 3$ ✓
 $-\frac{1}{2}x + y = \frac{1}{2}x - \frac{1}{2}x + 3$
 $-2\left[-\frac{1}{2}x + y = 3\right]$ ✓
 $x - 2y = -6$ ✓

1. $x + 2y = 4$ ✓
 $x - x + 2y = -x + 4$ ✓
 $\frac{2y}{2} = \frac{-x}{2} + \frac{4}{2}$ ✓
 $y = -\frac{1}{2}x + 2$ ✓
 $m = -\frac{1}{2}$ ✓, $b = 2$ ✓
2. $5x + 2y = 7$ ✓
 $5x - 5x + 2y = -5x + 7$ ✓
 $\frac{2y}{2} = \frac{-5x}{2} + \frac{7}{2}$ ✓
 $y = -\frac{5}{2}x + \frac{7}{2}$ ✓
 $m = -\frac{5}{2}$ ✓, $b = \frac{7}{2}$ ✓
3. $5x - 7y = 2$ ✓
 $5x - 5x - 7y = -5x + 2$ ✓
 $\frac{-7y}{-7} = \frac{-5x}{-7} + \frac{2}{-7}$ ✓
 $y = \frac{5}{7}x - \frac{2}{7}$ ✓

4. $y = 2x + \frac{1}{4}$ ✓
 $-2x + y = 2x - 2x + \frac{1}{4}$ ✓
 $-4 \left[-2x + y = \frac{1}{4} \right]$ ✓
 $8x - 4y = -1$ ✓

5. $y = \frac{5}{4}x + \frac{3}{8}$ ✓
 $-\frac{5}{4}x + y = \frac{5}{4}x - \frac{5}{4}x + \frac{3}{8}$ ✓
 $-8 \left[-\frac{5}{4}x + y = \frac{3}{8} \right]$ ✓
 $10x - 8y = -3$ ✓

$$m = \frac{5}{7}, b = -\frac{2}{7}$$

4. $\frac{2}{3}x - \frac{1}{3}y = 1$ ✓
 $\frac{2}{3}x - \frac{2}{3}x - \frac{1}{3}y = -\frac{2}{3}x + 1$ ✓
 $-3\left[-\frac{1}{3}y = -\frac{2}{3}x + 1\right]$ ✓
 $y = 2x - 3$ ✓
 $m = 2$ ✓, $b = -3$ ✓

5. $\frac{2}{3}x - \frac{1}{5}y = \frac{3}{5}$ ✓
 $\frac{2}{3}x - \frac{2}{3}x - \frac{1}{5}y = -\frac{2}{3}x + \frac{3}{5}$ ✓
 $-5\left[-\frac{1}{5}y = -\frac{2}{3}x + \frac{3}{5}\right]$ ✓
 $y = \frac{10}{3}x - 3$ ✓
 $m = \frac{10}{3}$ ✓, $b = -3$ ✓

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 $y = \frac{5}{7}x - \frac{2}{7}$ ✓

$$\begin{aligned} 4. \quad y &= 2x + \frac{1}{4} \checkmark \\ -2x + y &= 2x - 2x + \frac{1}{4} \checkmark \\ -4 \left[-2x + y &= \frac{1}{4} \right] \checkmark \\ 8x - 4y &= -1 \checkmark \\ 5. \quad y &= \frac{5}{4}x + \frac{3}{8} \checkmark \\ -\frac{5}{4}x + y &= \frac{5}{4}x - \frac{5}{4}x + \frac{3}{8} \checkmark \\ -8 \left[-\frac{5}{4}x + y &= \frac{3}{8} \right] \checkmark \\ 10x - 8y &= -3 \checkmark \end{aligned}$$

$$\begin{aligned} 4. \quad m &= \frac{5}{7} \checkmark, b = -\frac{2}{7} \checkmark \\ \frac{2}{3}x - \frac{1}{2}y &= 1 \checkmark \\ \frac{2}{3}x - \frac{2}{3}x - \frac{1}{3}y &= -\frac{2}{3}x + 1 \checkmark \\ -\frac{1}{3}y &= -\frac{2}{3}x + 1 \checkmark \\ y &= 2x - 3 \checkmark \\ m &= 2 \checkmark, b = -3 \checkmark \\ 5. \quad \frac{2}{3}x - \frac{1}{5}y &= \frac{3}{5} \checkmark \\ \frac{2}{3}x - \frac{2}{3}x - \frac{1}{5}y &= -\frac{2}{3}x + \frac{3}{5} \checkmark \\ -\frac{1}{5}y &= -\frac{2}{3}x + \frac{3}{5} \checkmark \\ y &= \frac{10}{3}x - 3 \checkmark \\ m &= \frac{10}{3} \checkmark, b = -3 \checkmark \end{aligned}$$

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 m &= \frac{5}{7}, b = -\frac{2}{7} \\
 4. \quad \frac{2}{3}x - \frac{1}{3}y &= 1 \\
 \frac{2}{3}x - \frac{2}{3}x - \frac{1}{3}y &= -\frac{2}{3}x + 1 \\
 -\frac{1}{3}y &= -\frac{2}{3}x + 1 \\
 y &= 2x - 3 \\
 m &= 2, b = -3 \\
 5. \quad \frac{2}{3}x - \frac{1}{5}y &= \frac{3}{5} \\
 \frac{2}{3}x - \frac{2}{3}x - \frac{1}{5}y &= -\frac{2}{3}x + \frac{3}{5} \\
 -\frac{1}{5}y &= -\frac{2}{3}x + \frac{3}{5} \\
 y &= \frac{10}{3}x - 3 \\
 m &= \frac{10}{3}, b = -3
 \end{aligned}$$