

Block Buster Answers

A: $m = \frac{1}{2}$ $b = -\frac{5}{4}$

B: y-int: $(0, 5)$ x-int: $(1, 0)$

C: $\frac{-3}{-7} = \left(\frac{3}{7}\right)$

D: $y = \frac{1}{2}x - 3 \rightarrow -7 = \frac{1}{2}(-8) - 3$
 $-7 = -4 - 3$
 $-7 = -7 \checkmark$

YES

E: $6x - 7y = 28$
 $-7y = -6x + 28$

$y = \frac{6}{7}x - 4$ $m = \frac{6}{7}$ $b = -4$

F: $y - 4 = -2(x + 3)$
 $y - 4 = -2x - 6$
 $y = -2x - 2$

G: $3x + 2y = 10$
 $2y = -3x + 10$
 $y = -\frac{3}{2}x + 5$ $m = -\frac{3}{2}$ $b = 5$

H: $y = \frac{3}{2}x + 6$ $9 = \frac{3}{2}(4) + 8$
 $9 \neq 14$

NO

I: $y + 1 = -4(x - 3)$

$$J: 6x + 16y = 8$$

$$16y = -6x + 8$$

$$y = -\frac{3}{8}x + \frac{1}{2}$$

$$m_{\perp} = -\frac{3}{8}$$

$$K: y - 3 = \frac{1}{2}(x - 8)$$

$$y - 3 = \frac{1}{2}x - 4$$

$$y = \frac{1}{2}x - 1$$

$$L: 5x - 4y = -1$$

$$-4y = -5x - 1$$

$$y = \frac{5}{4}x + \frac{1}{4}$$

$$m_{\perp} = -\frac{4}{5}$$

$$M: m = 0$$

$$N: 4x - 3y = 7$$

$$-3y = -4x + 7$$

$$y = \frac{4}{3}x - \frac{7}{3}$$

$$m_{\perp} = -\frac{3}{4}$$

O: undefined

$$P: m = 7$$

$$Q: m = 1$$

$$y + 2 = 1(x + 3)$$

or

$$y - 5 = 1(x - 4)$$

$$R: y = \frac{1}{4}x - 5$$

$$-2 = \frac{1}{4}(12) - 5$$

$$-2 = 3 - 5$$

$$-2 = -2 \checkmark$$

YES

$$S: m = -\frac{1}{14}$$

$$y - 4 = -\frac{1}{14}(x - 6)$$

$$y - 4 = -\frac{1}{14}x + \frac{6}{14}$$

$$y = -\frac{1}{14}x + \frac{31}{7}$$

$$T: 4x + 7y = 14$$

$$7y = -4x + 14$$

$$y = -\frac{4}{7}x + 2$$

$$m = -\frac{4}{7} \quad b = 2$$

$$U: y = -\frac{3}{4}x + 2$$

$$10 = -\frac{3}{4}(8) + 2$$

$$10 = 6 + 2$$

$$10 = 8$$

NO

$$V: y - 9 = \frac{3}{4}(x - 4)$$

$$W: m = -\frac{7}{2}$$

$$X: y\text{-int: } (0, 5)$$

$$x\text{-int: } (2, 0)$$

$$Y: y - 2 = 3(x + 7)$$

$$y - 2 = 3x + 21$$

$$y = 3x + 23$$

$$Z: m = -4$$