

⑪
ID1

$$(15, 6), (0, 10)$$

Diagram showing the points $(15, 6)$ and $(0, 10)$. A horizontal line segment connects the two points, with a minus sign $-$ below it. A vertical line segment connects the point $(0, 10)$ to the x-axis, with a minus sign $-$ to its left. The point $(0, 10)$ is circled, and the y-coordinate 10 is labeled with a b below it.

Algebra I
Feb 10-12 12-14-12
Class Notes

$$\frac{10-6}{0-15} = \frac{4}{-15} = -\frac{4}{15} = m$$

$$y = -\frac{4}{15}x + 10$$

⑮
ID1

$$y + 1 = 4x \quad Ax + By = C$$

Diagram showing the equation $y + 1 = 4x$. Below the y is a minus sign $-$, and below the $4x$ is a minus sign $-$.

$$1 = 4x - y$$

$$4x - y = 1$$

Exam 2 Review

$$(15) \quad y + 1 = 4x \quad Ax + By = C$$

$$\overset{-y}{\text{①}} = \overset{-y}{\textcircled{4x - y}}$$

$$\boxed{4x - y = 1} \quad \checkmark$$

$$(16) \quad x - \frac{1}{2}y = -\frac{3}{2}$$

$$Ax + By = C$$

$$\boxed{2x - y = -3}$$

$$(22) \quad \underset{-30}{0} = \underset{-30}{30} + \underset{-2x}{2x} - \underset{-2x}{6y} \quad y = mx + b$$

$$\begin{array}{r} \downarrow \\ \frac{-2x - 30}{-6} = \frac{-6y}{-6} \end{array}$$

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

$$\boxed{y = \frac{1}{3}x + 5} \quad \checkmark$$

(25)
#02

$$(-3, -5), (4, 2)$$

x, y

$$\frac{2+5}{4+3} = \frac{7}{7} = 1 = m$$

$$y = mx + b$$

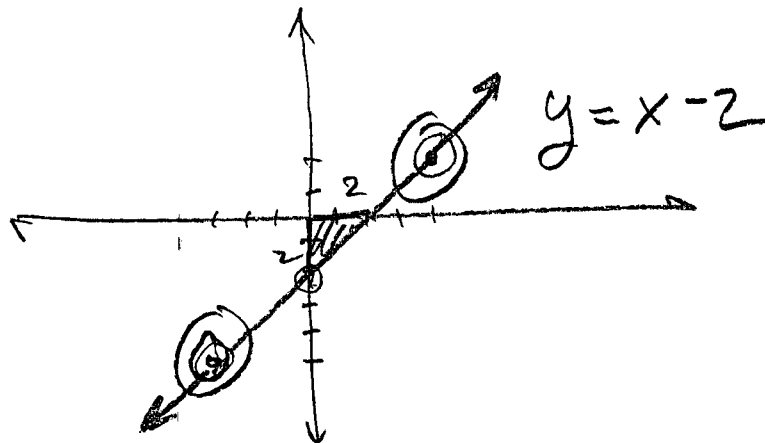
$$2 = (1)(4) + b$$

$$2 = 4 + b$$

$$-2 = b$$

$$y = x - 2$$

Ex $(-3, -5), (4, 2)$



⑪
ID2

$$\text{Slope} = -1. \quad y\text{-intercept} = 4$$



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$$y = \textcircled{m}x + \textcircled{b}$$

$$\boxed{y = -1x + 4}$$

or $y = -x + 4$

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ID2

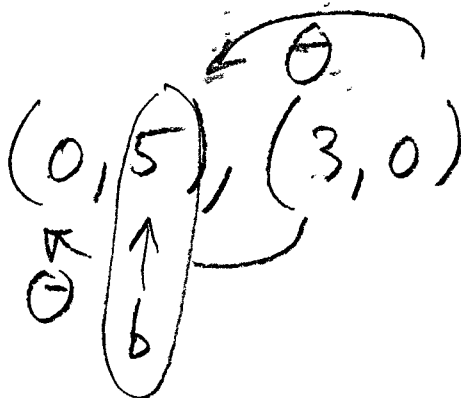
$$y + 2 + \frac{1}{2}x = 0 \quad Ax + By = C$$

-2 -2

$2\left(\frac{1}{2}x + y\right) = -2 \cdot 2$ mult. by 2, $\cancel{6x}$

$$\boxed{x + 2y = -4}$$

(26)



$$\frac{0-5}{3-0} = \frac{-5}{3} = m$$

$$y = -\frac{5}{3}x + 5$$

(24)

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-15

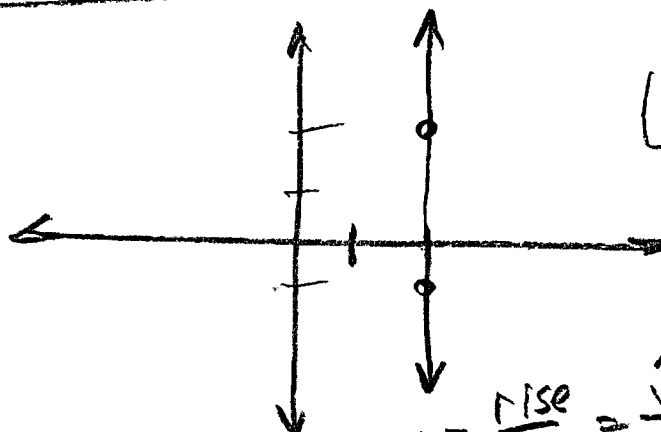
$$15 - 3y = 21x - 15$$

$$y = mx + b$$

$$\frac{-3y}{-3} = \frac{21x - 15}{-3}$$

$$y = -7x + 5$$

(2)



$$x = 2$$

EOL

$$m = \frac{\text{rise}}{\text{run}} = \frac{0}{0} = \frac{0}{0} = \text{undefined}$$