

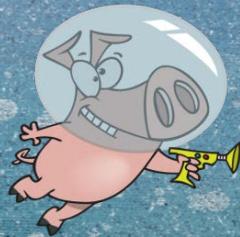
MAZE OF THE MONTH CLUB



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digital toonage

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ANSWER KEY

Put the equation
into $y=mx + b$

1. Move the variables so that they are in the right place.
2. When a term goes across the equals sign, change its sign.
3. If y is not by itself, then divide both sides by its coefficient.
4. It should match $y=mx + b$.

$$2x + y = 5$$

$$y = -2x + 5$$

$$x + y = -3$$

$$y = -x - 3$$

$$y - 4x = 10$$

$$y = 4x + 10$$

$$y + 3x = 0$$

$$y = -3x$$

$$y + 4 = 2x$$

$$y = 2x - 4$$

$$-3 + y = 2x$$

$$y = 2x + 3$$

$$4 - y = 5x$$

$$\begin{aligned} -y &= 5x - 4 \\ -1 & \quad -1 \quad -1 \\ y &= -5x + 4 \end{aligned}$$

$$-6 - y = x$$

$$\begin{aligned} -y &= x + 6 \\ -1 & \quad -1 \\ y &= -x - 6 \end{aligned}$$

$$\frac{2y}{2} = \frac{6x - 4}{2}$$

$$y = 3x - 2$$

$$6x + 3y = 12$$

$$\frac{3y}{3} = \frac{6x + 12}{3}$$

$$y = -2x + 4$$

$$-16x + 4y = 4$$

$$\begin{aligned} \frac{4y}{4} &= \frac{16x + 4}{4} \\ y &= 4x + 1 \end{aligned}$$

$$\frac{5y}{5} = \frac{10x + 15}{5}$$

$$y = 2x + 3$$

ANSWER KEY

Change to $y=mx+b$

$$2x + y = 7$$

$$y = -2x + 7$$

$$-4x + y = -5$$

$$y = 4x - 5$$

$$x - y = 3$$

$$\begin{array}{r} -y = -x + 3 \\ \frac{-1}{-1} \quad \frac{-1}{-1} \\ y = x - 3 \end{array}$$

$$3 + y = 2x$$

$$y = 2x - 3$$

$$4 + y = -8x$$

$$y = -8x - 4$$

$$-2 - y = x$$

$$\begin{array}{r} -y = x + 2 \\ \frac{-1}{-1} \quad \frac{-1}{-1} \\ y = -x - 2 \end{array}$$

$$y + 3 = 8x$$

$$y = 8x - 3$$

$$-y + 2 = -x$$

$$\begin{array}{r} -y = -x - 2 \\ \frac{-1}{-1} \quad \frac{-1}{-1} \\ y = x + 2 \end{array}$$

$$5y - 10 = 5x$$

$$\frac{5y}{5} = \frac{5x + 10}{5}$$

$$y = x + 2$$

$$\frac{3y}{3} = \frac{6x + 9}{3}$$

$$y = 2x + 3$$

$$\frac{10y}{10} = \frac{40x - 20}{10}$$

$$y = 4x - 2$$

$$\frac{-2y}{-2} = \frac{8x - 2}{-2}$$

$$y = -4x + 1$$

What are the key points when putting an equation into $y=mx+b$ format:

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$$-6 - y = x$$

$$2y = 6x - 4$$

$$6x + 3y = 12$$

$$-16x + 4y = 4$$

$$5y = 10x + 15$$

Change to $y=mx + b$

$$2x + y = 7$$

$$-4x + y = -5$$

$$x - y = 3$$

$$3 + y = 2x$$

$$4 + y = -8x$$

$$-2 - y = x$$

$$y + 3 = 8x$$

$$-y + 2 = -x$$

$$5y - 10 = 5x$$

$$3y = 6x + 9$$

$$10y = 40x - 20$$

$$-2y = 8x - 2$$

What are the key points when putting an equation into $y=mx + b$ format:

- *
- *
- *