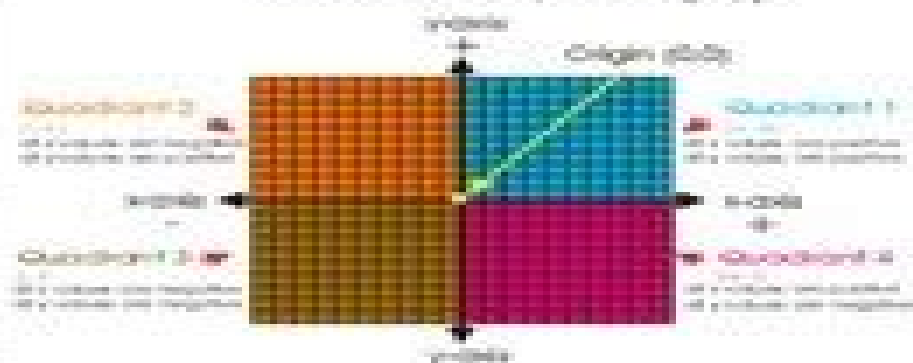


IMPORTANT FORMULAS:

Slope	In a graph, $m = \frac{\text{rise}}{\text{run}}$ From a table or set of coordinates: $m = \frac{y_2 - y_1}{x_2 - x_1}$
Linear equation (slope-intercept form)	$y = mx + b$ where m is slope and b is y-intercept
Volume of a prism	$V = Bh$ where B is area of base
Volume of a cylinder	$V = \pi r^2 h$ where r is radius, h is height
Volume of a cone	$V = \frac{1}{3} \pi r^2 h$
Volume of a sphere	$V = \frac{4}{3} \pi r^3$

Coordinate plane (x,y)



SOLVING EQUATIONS – VARIABLES ON BOTH SIDES

$$\begin{array}{rcl}
 6x - 15 & = & 3x + 8 \\
 -3x & & -3x \\
 \hline
 3x - 15 & = & 8 \\
 -15 & & -15 \\
 \hline
 3x & = & -7 \\
 \frac{3x}{3} & = & \frac{-7}{3} \\
 x & = & -\frac{7}{3}
 \end{array}$$

subtract the smallest in grey

subtract the 15

divide the 3

SOLVE FOR X:

$$15 + 6x = 45 + 8x$$

$$\begin{array}{rcl}
 15 + 6x & = & 45 + 8x \\
 -6x & & -6x \\
 \hline
 15 & = & 45 + 2x \\
 -45 & & -45 \\
 \hline
 -30 & = & 2x \\
 \frac{-30}{2} & = & \frac{2x}{2} \\
 -15 & = & x
 \end{array}$$

Check your answer:

$$\begin{array}{l}
 15 + 6(-15) \stackrel{?}{=} 45 + 8(-15) \\
 15 + (-90) \stackrel{?}{=} 45 + (-120) \\
 -75 = -75 \checkmark
 \end{array}$$

SOLVING EQUATIONS – MULTISTEP WITH DISTRIBUTIVE PROPERTY

- 1) DISTRIBUTIVE PROPERTY
- 2) COMBINE LIKE TERMS ON EACH SIDE OF =
- 3) LINE INVERSE OPERATIONS TO GET + AND -
- 4) ISOLATE COEFFICIENT (NORMAL IS TO GET VARIABLE ON ONE SIDE, WORK OF =)
- 5) LINE INVERSE OPERATIONS TO ISOLATE THE VARIABLE

$$3x + 15 - 8 = 2(x + 2)$$

$$3x + 15 - 8 = 2(x + 2)$$

$$\begin{array}{l}
 3x + 15 - 8 = 2(x + 2) \\
 3x + 7 = 2x + 4 \\
 3x - 2x = 4 - 7 \\
 x = -3
 \end{array}$$

WRITING EQUATION OF A LINE

The equation of a line is $y = mx + b$. We need to first find the slope m and the y-intercept b before we can write an equation.

Example: Write the equation of the line that passes through the points (3, -2) and (10, 8)

STEP 1: Find the slope using $m = \frac{y_2 - y_1}{x_2 - x_1}$. You can assign (3, -2) as (x_1, y_1) and (10, 8) as (x_2, y_2) . **PLUG IN!**

$$m = \frac{8 - (-2)}{10 - 3} \text{ and we get } m = \frac{10}{7} = 2 \dots \text{so our slope is 2}$$

STEP 2: Using one of your coordinates (let's use (10, 8) so we're y=8) and your slope (m=2), plug in to y=mx+b and solve.

$$y = mx + b \rightarrow 8 = 2(10) + b \rightarrow 8 = 20 + b \rightarrow b = -12 \dots \text{so our y-intercept is -12}$$

STEP 3: Plug m and b into y=mx+b.

The equation for the line that passes through (3, -2) and (10, 8) is $y = 2x - 12$

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Camilla Rothe



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