Bell Ringer - Week of October 15th

Monday

Were you happy with your first quarter grade? If yes, what will you do the same? If no, what will you try and do differently. **Four complete sentences.**

Tuesday

Example 1: Determine whether $y = 6 - 3x$ is a linear equation. Write the equation in standard form.

First rewrite the equation so both variables are on the same side of the equation.

$y = 6 - 3x$	Original equation
$y + 3x = 6 - 3x + 3x$	Add $3x$ to each side.
$3x + y = 6$	Simplify.

The equation is now in standard form, with $A = 3$, $B = 1$ and $C = 6$. This is a linear equation.

Example 2: Determine whether $3xy + y = 4 + 2x$ is a linear equation. Write the equation in standard form.

Since the term $3xy$ has two variables, the equation cannot be written in the form $Ax + By = C$. Therefore, this is not a linear equation.

Exercises

Determine whether each equation is a linear equation. Write *yes* or *no*. If yes, write the equation in standard form.

1. $2x = 4y$ **2.** $6 + y = 8$ **3.** $4x - 2y = -1$

Wednesday

Determine whether each equation is a linear equation. Write *yes* or *no*. If yes, write the equation in standard form.

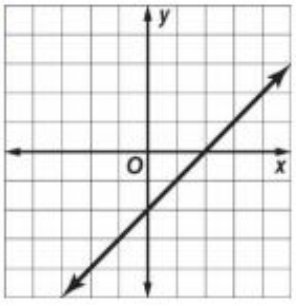
1. $xy = 6$ **2.** $y = 2 - 3x$ **3.** $5x = y - 4$

4. $y = 2x + 5$ **5.** $y = -7 + 6x$ **6.** $y = 3x^2 + 1$

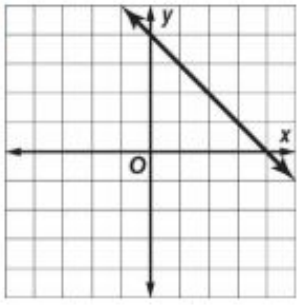
Thursday

Find the *x*- and *y*-intercepts of each linear function.

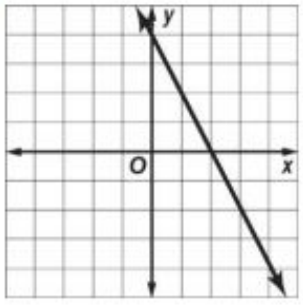
10.



11.



12.



Friday

. **DISTANCE** A bus is driving at 60 miles per hour toward a bus station that is 250 miles away. The function $d = 250 - 60t$ represents the distance d from the bus station the bus is t hours after it has started driving. Find the zero of this function. Describe what this value means in this context.