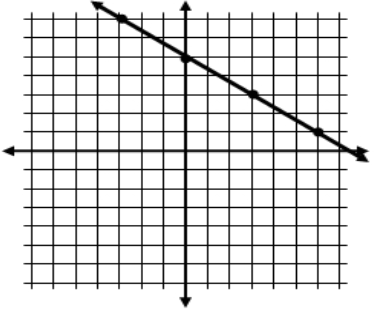
**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per:\_\_\_\_\_\_\_\_\_\_\_\_**

**Midterm Review Warm Up 2**

**Section 1.6**



**Ex:** Write a rule for the function represented by the graph:

Start by setting up an *x*/*y* table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *x* | −3 | 0 | 3 | 6 |
| *y* | 7 | 5 | 3 | 1 |

Use the *x*/*y* table to find Δ*y* and Δ*x*, then set up the fraction

to find the coefficient of *x* in the function.

Δ*y* = −2, Δ*x* = 3, so the fraction is which means the function starts as

*y* =

Now check the first input of −3 and see if when you put that into the function the correct output comes out. If you multiply you would get 2 and you *want*  to get 7, so to adjust, add 5 to the function making it:

*y* = check to see that it works for all other inputs

**Section 2.2 Section 2.5**

**Ex:** Add **Ex:** Simplify: 4(3 – 2*x*) – 3(*x* – 6)

First change to improper, then find common \*Helpful hint is to rewrite subtraction as adding a

Denominator, then add numerators, keep negative before distributing.

denominator

4(3 + −2*x*) + −3(*x* + −6)

12 + −8*x* + −3*x* + 18

−11*x* + 30

**Section 2.7**

**Ex:** Order from least to greatest: