

Algebra 1

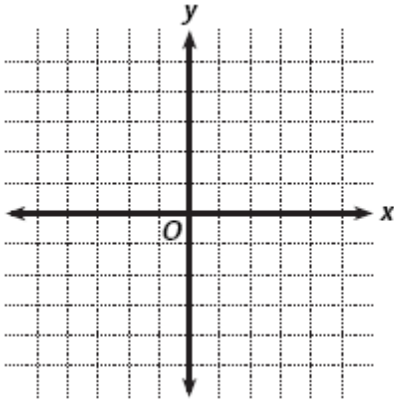
Homework – Graphing Absolute Value

YOU MUST SHOW ALL WORK TO RECEIVE CREDIT!!

Name: \_\_\_\_\_

For questions 1—2, graph each absolute value.

1.  $f(x) = -2|x| + 5$



h =                  k =                  a =

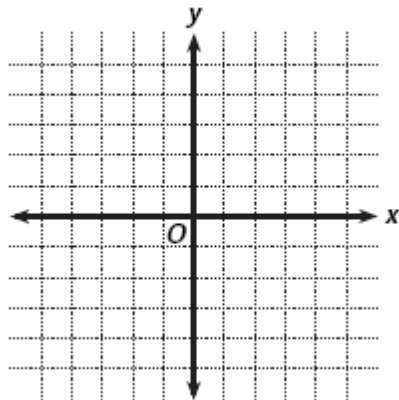
Describe the translation:

Vertex = (     ,     )

Domain:

Range:

2.  $f(x) = \frac{1}{3}|x - 2| + 1$



h =                  k =                  a =

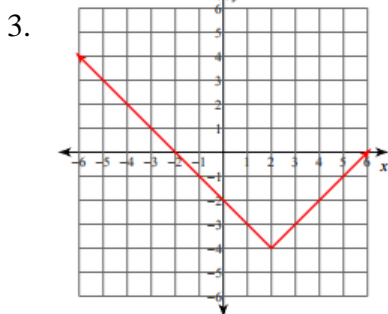
Describe the translation:

Vertex = (     ,     )

Domain:

Range:

Given either the graph or information, write the absolute value equation for questions 3—4.



3. \_\_\_\_\_

4. Translate the graph of the parent function  $f(x) = |x|$  by reflecting the graph over the x-axis, five units to the left, four units up, and stretched by a factor of 3.

4. \_\_\_\_\_