10/17

- How do you write a function of an Absolute Value graph?

Recall the general form: $f(x) = a|x-h|+K$

① a is the slope $\frac{\text{Rise}}{\text{Run}}$

②(h, K) is the vertex point

The next 6 examples will illustrate the process.

2.6 Writing Eq of Abs Value Graphs.pdf - Adobe Reader
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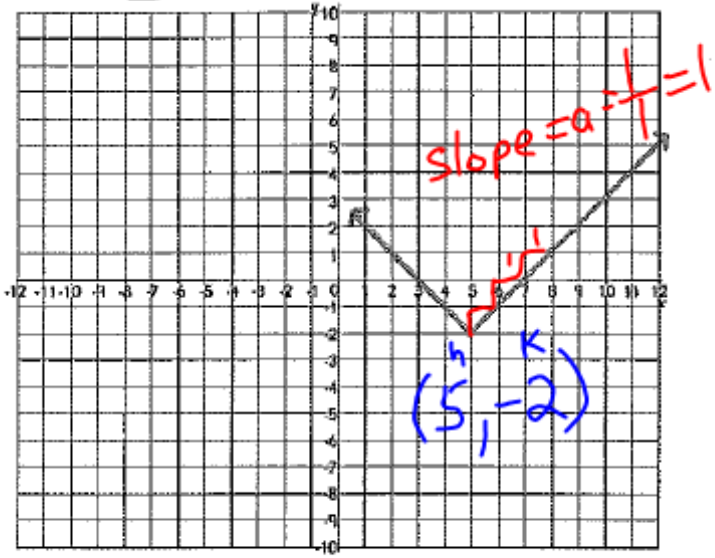
1 / 1 100% Tools Sign Comment

Target 2B. Understand the relationship between an equation and its graph.

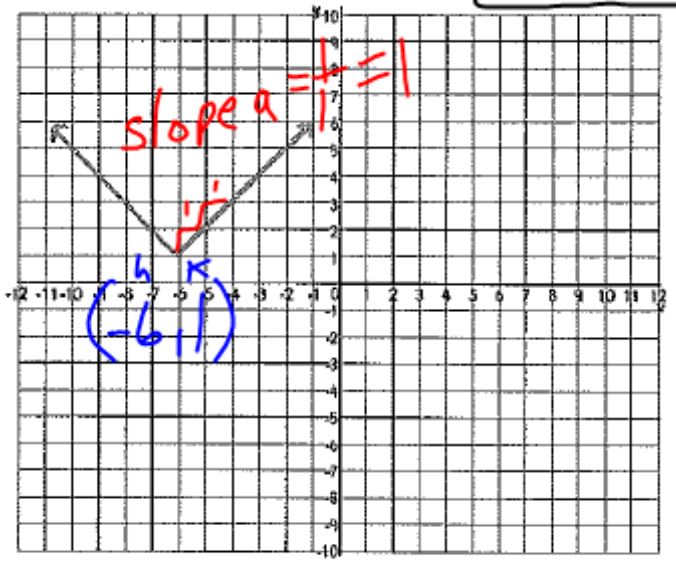
$f(x) = a|x-h|+k$

Write the equation of the absolute value graph. Then check to make sure your equation matches the graph.

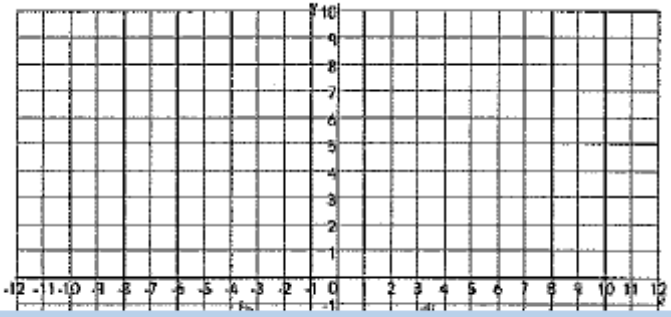
1. $f(x) = 1|x-5|-2$



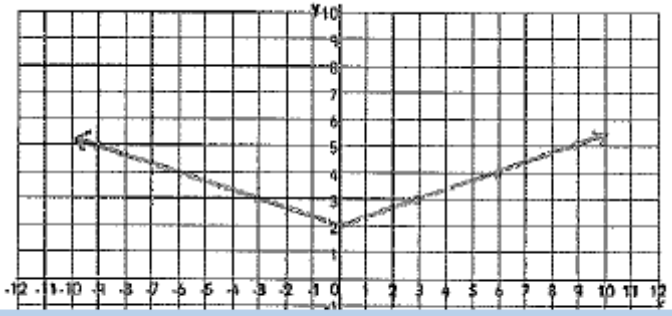
2. $f(x) = 1|x-(-6)|+1 = 1|x+6|+1$



3. $f(x) =$



4. $f(x) =$



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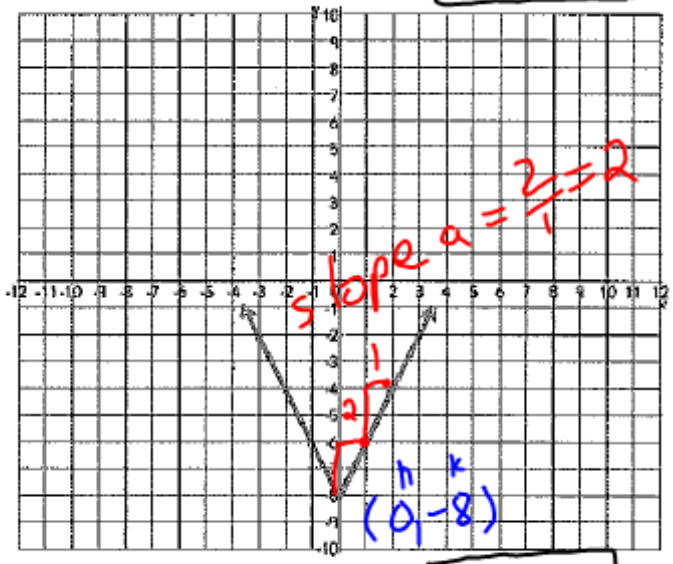
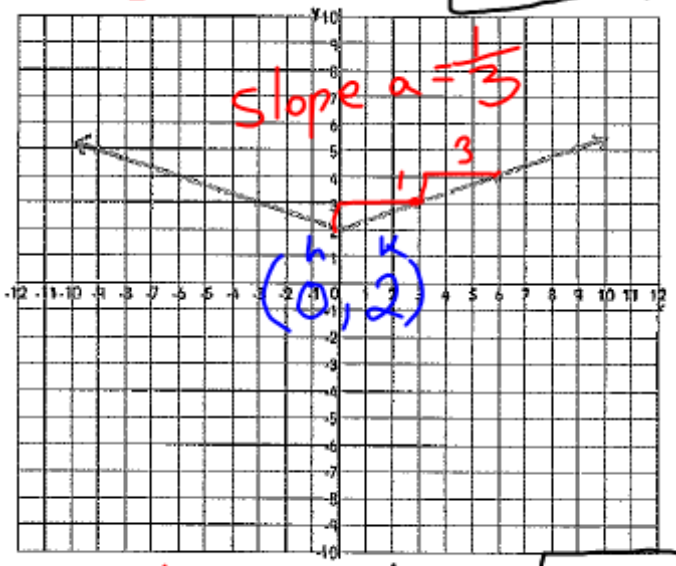
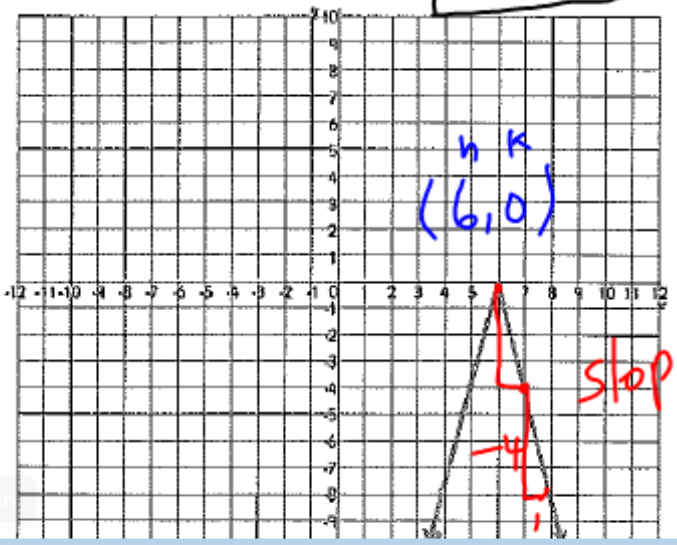
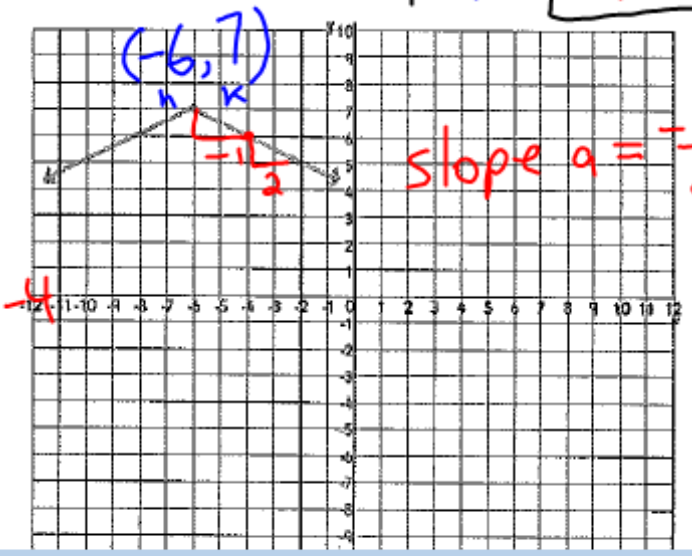
3. $f(x) = 2|x-0| - 8 = \boxed{2|x| - 8}$



4. $f(x) = \frac{1}{3}|x-0| + 2 = \boxed{\frac{1}{3}|x| + 2}$



5. $f(x) = -4|x-6| + 0 = \boxed{-4|x-6|}$



6. $f(x) = \frac{-1}{2}|x-(-6)| + 7 = \boxed{\frac{-1}{2}|x+6| + 7}$