

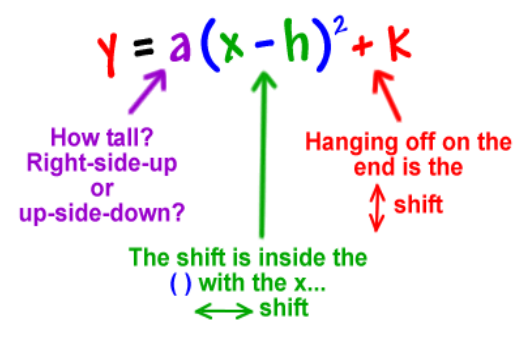


Name _____

Date _____ Period _____

TRANSFORMATIONS WORKSHEET

ALGORITHM:



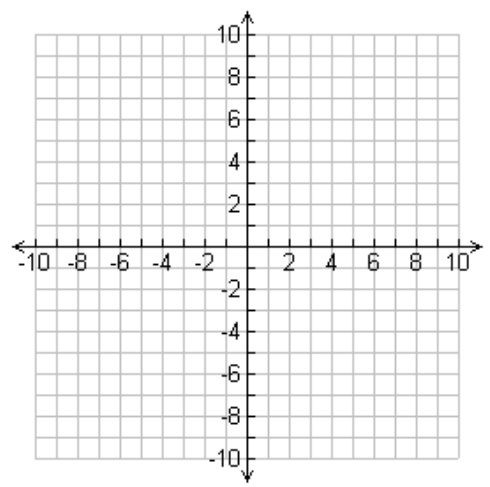
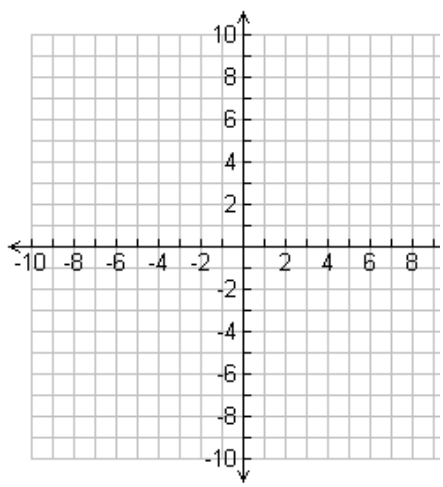
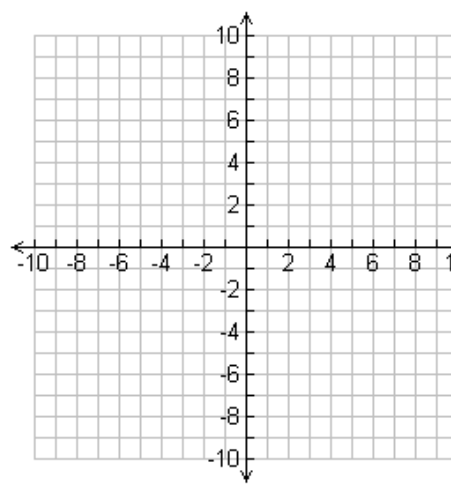
This works for absolute value and exponential as well!

Graph the following functions.

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

2. $f(x) = -|x+3|$

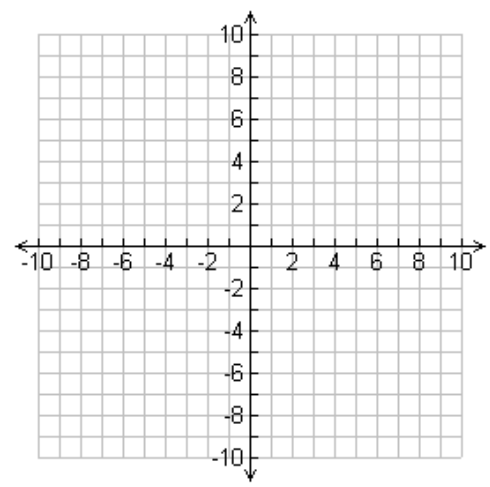
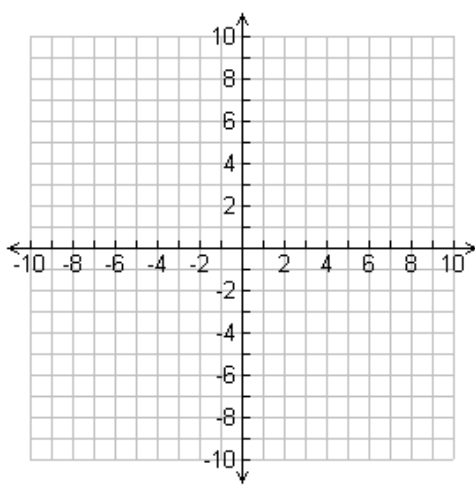
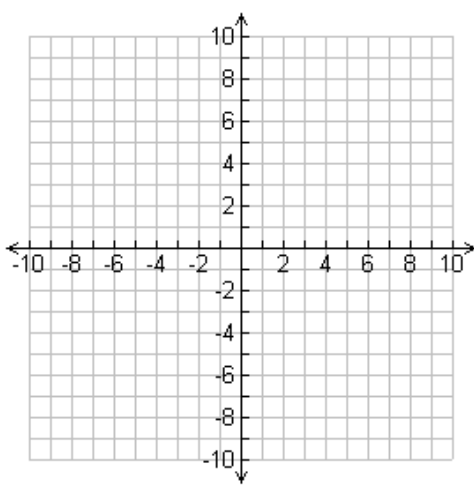
3. $f(x) = 3|x| - 6$



4. $f(x) = -2x^2 + 4$

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

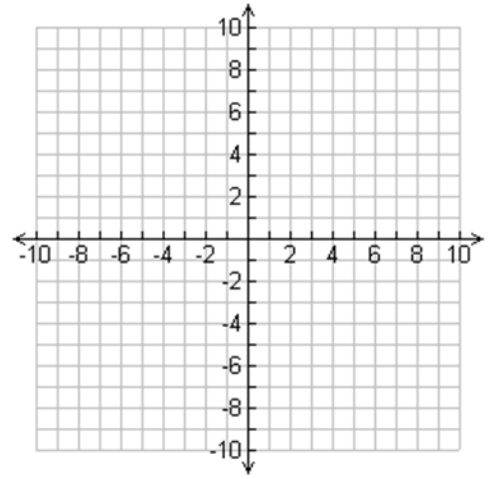
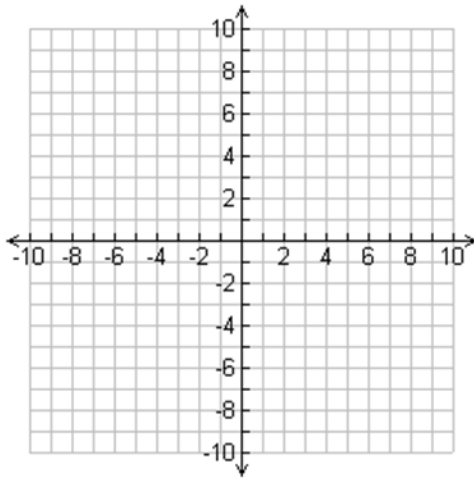
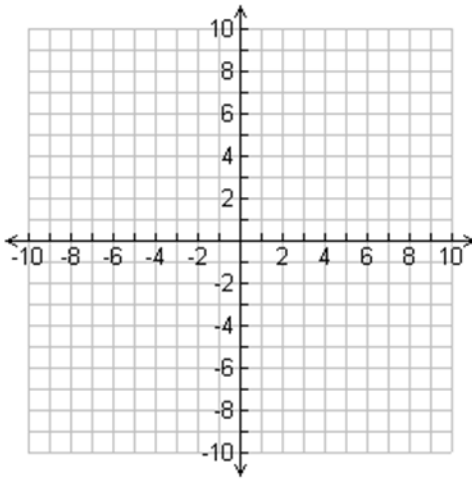
6. $f(x) = -(x+2)^2 + 4$



7. $f(x) = 2(x - 2)^2 - 1$

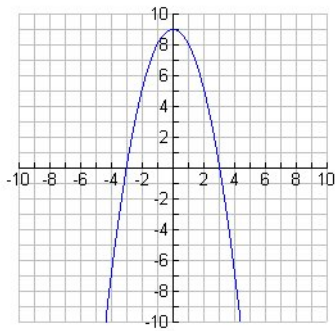
8. $f(x) = 2 \cdot 2^{x+1} - 4$

9. $f(x) = -2^{x-3} + 1$

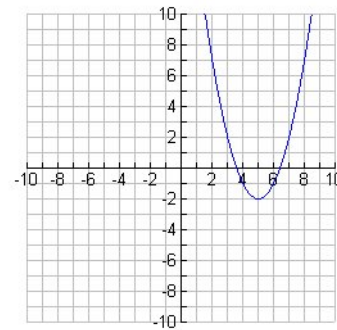


Write the equation of the parabolas graphed below. Use your calculator to check your answer.

10.



11.



Equation: _____

Equation: _____

12. Explain the effect of a , h , and k on the following function: $f(x) = a(x - h)^2 + k$