Tuesday, October 10, 2017 Bellwork Alg 2B

Write an equation that transforms each parent function according to the written description.

1. Parent Function: $y = x^2$

Transformations: Moved 9 left and 2 up.

Three times taller. Upside down.

2. Parent Function: y = |x|

Transformations: Moved 1 right and 6 down. One-third as tall.

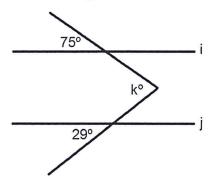
EQ:

EQ:

3. Write the equation of this quadratic:



4. Use the figure below which is not drawn to scale. Line i is parallel to line j. What is the value of k?



5. Let the function f be defined by f(x) = x - u. If f(4) = -8, what is the value of f(2u)?

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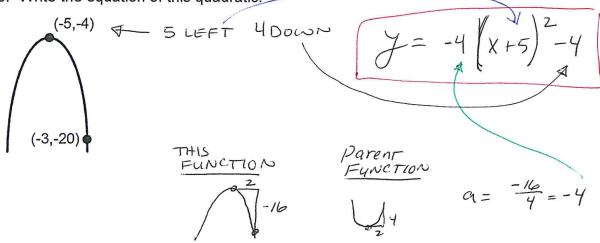
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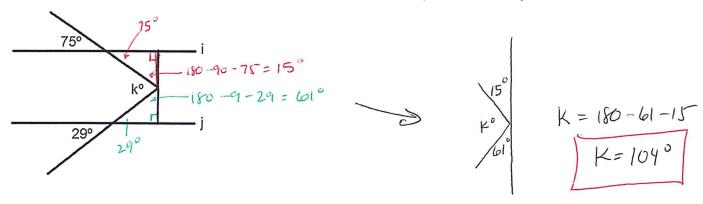
EQ:
$$y = -3(x+9)^2+2$$

EQ:
$$y = \frac{1}{3} |x-1| - 6$$

3. Write the equation of this quadratic:



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5. Let the function f be defined by f(x) = x - u. If f(4) = -8, what is the value of f(2u)?

