

Name: _____

Per: _____

POINTS: _____

Classwork #18 Quiz

Be sure to include your work when appropriate.**Describe the transformation of the quadratic parent function, $f(x) = x^2$ that will result in the graph of the quadratic function given.**

1. $h(x) = \left(\frac{1}{2}x\right)^2 - 1$

2. $h(x) = -2(3x + 10)^2 + 3$

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Identify the domain, range, x-intercept, y-intercept and vertex of the quadratic function described by the equation shown below. Write the domain and range as inequalities, as intervals, and in set builder notation.

3. $f(x) = 2(x + 1)^2 - 8$

4. $f(x) = 6(2x - 10)^2 - 3$

5. $f(x) = -\left(\frac{1}{2}x - 3\right)^2 - 1$

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