LESSON 2.4 Assignment

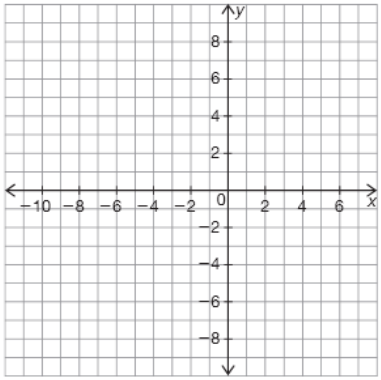
Name _____ Date _____

Side to Side

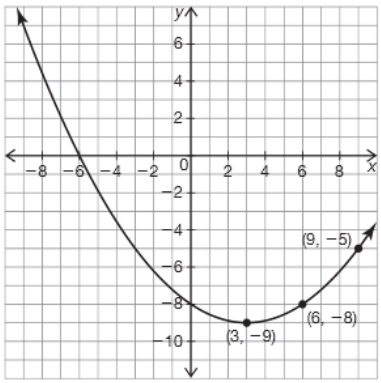
Horizontal Dilations of Quadratic Functions

2

1. Graph $m(x) = \frac{1}{2}x + 3^2 + 2$ [illegible] steps.

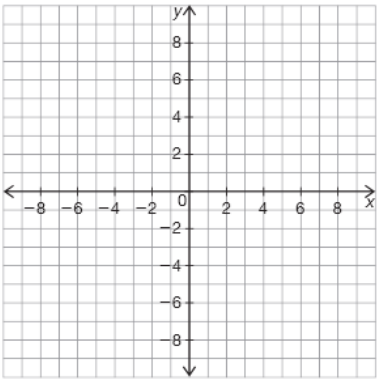


2. Write the function $p(x)$ that represents the given graph. Explain your reasoning.



2

3. Graph $g(x) = (2x - 8)^2 - 4$ without a calculator. Explain each of your steps.



4. The graph of the quadratic function $t(x)$ is shown. If $f(x) = x^2$, write $t(x)$ in terms of $f(x)$. Explain your reasoning.