

Quadratic Transformation WS

Sketch the graph of each transformation on the given graph of $y = x^2$

<p>1. $y = x^2 + 2$</p>	<p>2. $y = x^2 - 3$</p>	<p>3. $y = -x^2$</p>
<p>4. $y = 3x^2$</p>	<p>5. $y = \frac{1}{3}x^2$</p>	<p>6. $y = -2x^2$</p>
<p>7. $y = (x+2)^2$</p>	<p>8. $y = (x-1)^2$</p>	<p>9. $y = (x+1)^2 + 2$</p>

Without Graphing, describe what happens to each of the following with respect to the graph of $y = x^2$.

10. $y = x^2 + 8$	11. $y = x^2 - 5$	12. $y = -x^2$
13. $y = (x+7)^2$	14. $y = (x-4)^2$	15. $y = (x-5)^2 - 2$