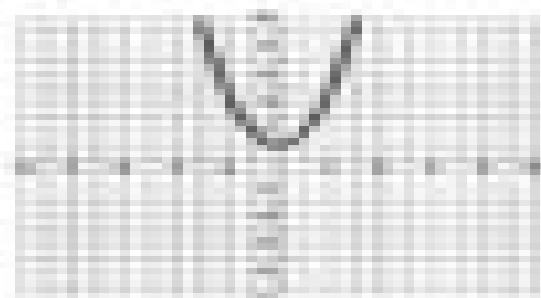


Quadratic Functions (P)

1. How do the graphs of $f(x) = x^2 + 5$ and $g(x) = x^2 - 10$ relate to each other?
- The graph of $f(x)$ is 5 units above the graph of $g(x)$.
 - The graph of $f(x)$ is 15 units above the graph of $g(x)$.
 - The graph of $f(x)$ is 5 units to the right of the graph of $g(x)$.
 - The graph of $f(x)$ is 15 units to the right of the graph of $g(x)$.
2. In the graph of the function $y = x^2 + 8$, which describes the shift in the vertex of the parabola if, in the function, 8 is changed to -12 ?
- 8 units up
 - 10 units up
 - 8 units down
 - 10 units down
3. Which function below is the parent function for y -coordinates?
- $f(x) = 16$
 - $f(x) = 2x$
 - $f(x) = (x)$
 - $f(x) = (x)^2$

4. The graph of $f(x) = x^2 + 4$ is shown. Which problem is not multiple choice (but has three parts that need to be answered)?
- Graph $g(x) = x^2 + 8$ on the same graph and describe the transformation.



5. Give an appropriate domain and range for $g(x)$, and justify your answer.
6. Use the table of values of $g(x)$ below to determine if $g(x)$ is a linear or quadratic function.

x	-2	-1	0	1	2
$g(x)$	1	1	1	1	1

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Michael Brown



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