

Algebra 1
Section 8.5 wksht #1

Name _____

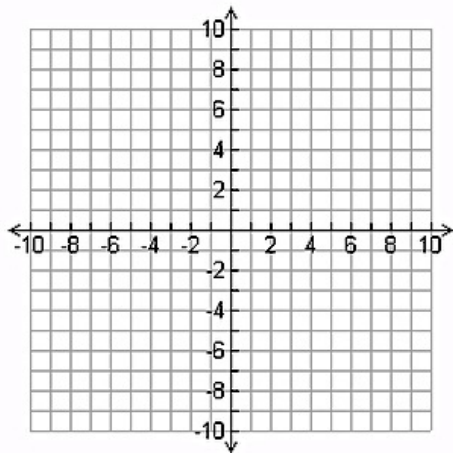
Graph the quadratic function. State the vertex, axis of symmetry, and x -intercepts. Describe the domain and range of the function using interval notation.

1. $f(x) = (x+4)(x-2)$

vertex: AOS:

x-intercepts:

Domain: Range:

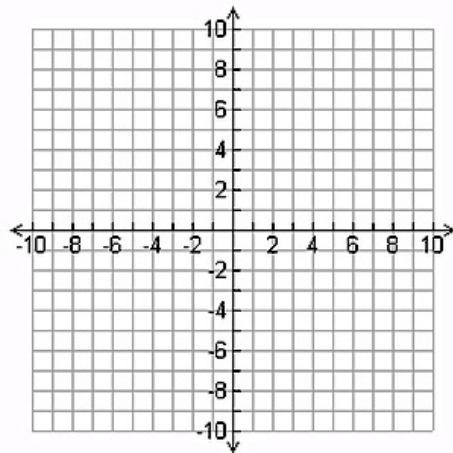


2. $h(x) = 2(x-3)(x+1)$

vertex: AOS:

x-intercepts:

Domain: Range:

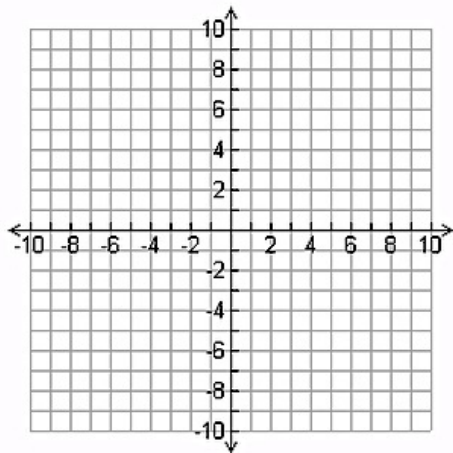


3. $g(x) = -(x+3)(x-1)$

vertex: AOS:

x-intercepts:

Domain: Range:

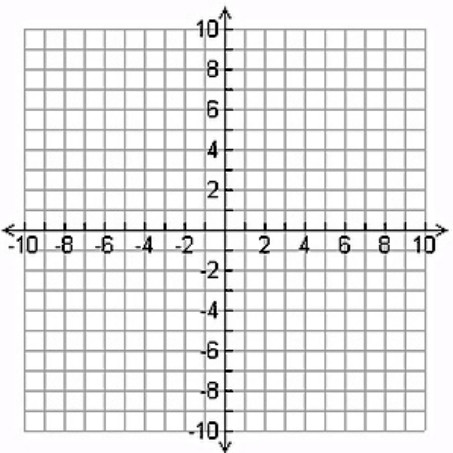


4. $y = (x+2)(x-2)$

vertex: AOS:

x-intercepts:

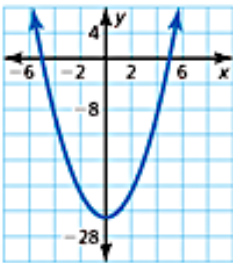
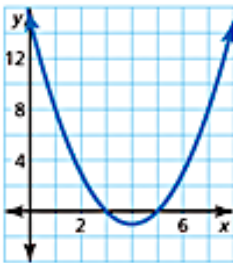
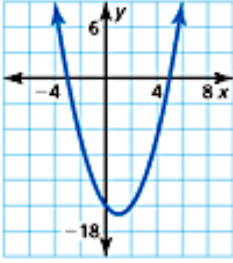
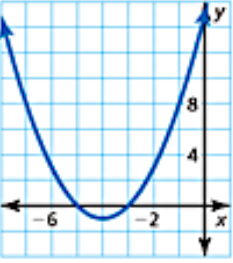
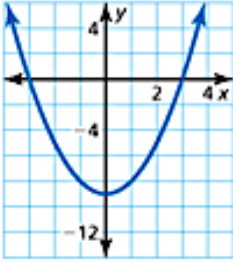
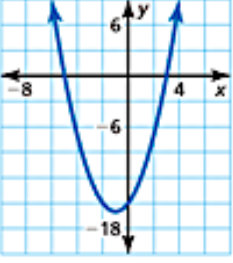
Domain: Range:



Find the zeros of the function.

5. $g(x) = -2(x-2)(x-10)$	6. $f(x) = \frac{1}{3}(x+5)(x-1)$
7. $y = x^2 + 5x - 24$	8. $g(x) = x^2 - 17x + 52$
9. $y = 3x^2 - 15x - 42$	10. $g(x) = -4x^2 - 8x - 4$

In 11 – 16, match the function with its graph.

_____ 11. $y = (x+5)(x+3)$	<p>A. </p> <p>B. </p> <p>C. </p> <p>D. </p> <p>E. </p> <p>F. </p>
_____ 12. $y = (x+5)(x-3)$	
_____ 13. $y = (x-5)(x+3)$	
_____ 14. $y = (x-5)(x-3)$	
_____ 15. $y = (x+5)(x-5)$	
_____ 16. $y = (x-3)(x+3)$	