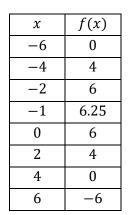
1.

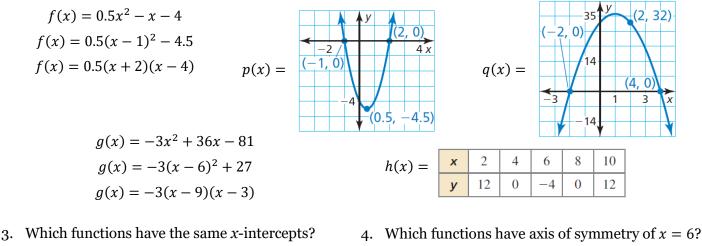
4.3.D1 · Intro to quadratic Functions

Date: _____

Identify the vertex, *x*-intercepts, *y*-intercept, and axis of symmetry of each quadratic function.



Consider the following quadratic functions:

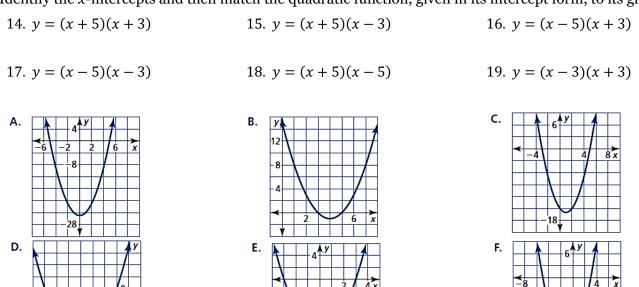


- 5. Which functions have the same *y*-intercept?
- 7. Which function has the largest maximum value (*y*-coordinate of the vertex)?
- 9. Which functions have an *x*-intercept of 4?
- 6. Which functions have the same minimum value (*y*-coordinate of the vertex)?
- 8. Which function has the smallest *y*-intercept?
- 10. Does the function g(x) open up or open down?

Identify the indicated characteristics of the quadratic function

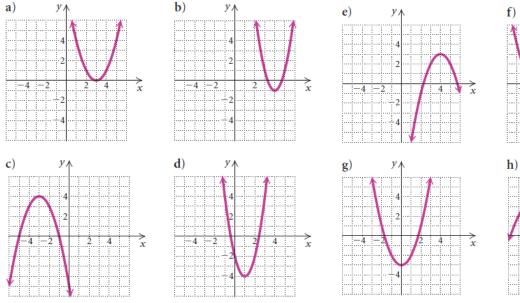
11. $y = -2(x + 1)(x + 4)$	12. $y = 2(x - 75)^2 - 92$	13. $y = -0.3x^2 - 3x + 6$
X-INTERCEPTS:	VERTEX:	Y-INTERCEPT:
CONCAVITY: UP DOWN	CONCAVITY: UP DOWN	CONCAVITY: UP DOWN

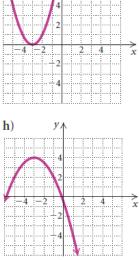
Identify the *x*-intercepts and then match the quadratic function, given in its intercept form, to its graph.



Identify the vertex of the quadratic function and then match the function with its graph.

20. $g(x) = (x+3)^2$ 21. $g(x) = -(x-4)^2 + 3$ 22. $g(x) = 2(x-4)^2 - 1$ 23. $g(x) = x^2 - 3$ 24. $g(x) = -\frac{1}{2}(x+3)^2 + 4$ 25. $g(x) = (x-3)^2$ 26. $g(x) = -(x+3)^2 + 4$ 27. $g(x) = 2(x-1)^2 - 4$





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