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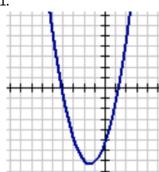
Ready, Set, Go!

Ready

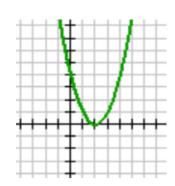
Topic: Finding y-intercepts in parabolas

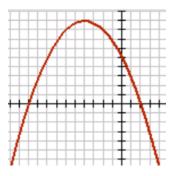
State the y-intercept for each of the graphs. Then match the graph with its equation.

1.

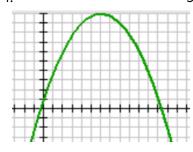


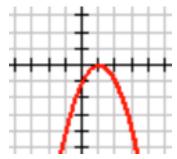
2.



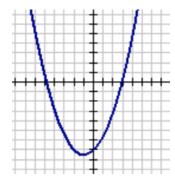


4.





6.



$$f(r) = -r^2 + 2r - 1$$

a.
$$f(x) = -x^2 + 2x - 1$$
 b. $f(x) = -.25x^2 - 2x + 5$ c. $f(x) = x^2 + 3x - 5$

c.
$$f(x) = x^2 + 3x - 5$$

d.
$$f(x) = 5x^2 + x - 7$$

d.
$$f(x) = .5x^2 + x - 7$$
 e. $f(x) = -.25x^2 + 3x + 1$ f. $f(x) = x^2 - 4x + 4$

$$f(x) = x^2 + 4x + 4$$

Set Topic: Completing the square when a > 1.

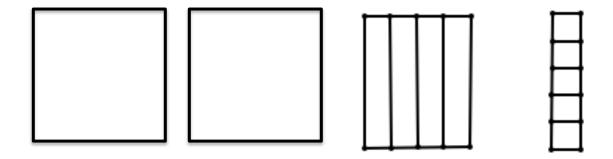
Fill in the missing constant so that each expression represents 5 perfect squares. Then state the dimensions of the squares in each problem.

7.
$$5x^2 + 30x +$$
 9. $5x^2 + 10x +$ 9. $5x^2 + 10x +$

8.
$$5x^2 - 50x +$$

9.
$$5x^2 + 10x +$$

10. Given the scrambled diagram below, write two equivalent equations for the area.



Determine if each expression below is a perfect square or not. If it is not a perfect square, find the perfect square that seems "closest" to the given expression and show how the perfect square can be adjusted to be the given expression.

11.
$$A(x) = x^2 + 10x + 14$$

$$12. \ A(x) = 2x^2 + 16x + 6$$

11.
$$A(x) = x^2 + 10x + 14$$
 12. $A(x) = 2x^2 + 16x + 6$ 13. $A(x) = 3x^2 + 18x - 12$

GO

Topic: Evaluating functions.

Find the indicated function value when $f(x) = 4x^2 - 3x - 25$ and $g(x) = -2x^2 + x - 5$.

- 14. f(1) 15. f(5) 16. g(10) 17. g(-5)
- 18. f(0) + g(0)