

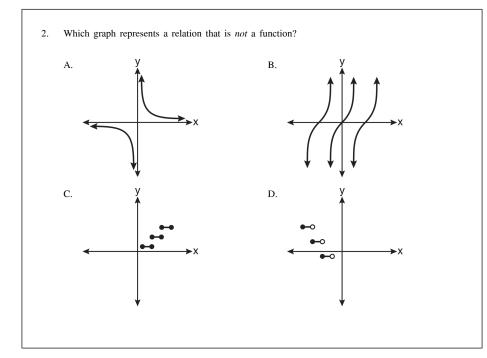
1. Which of the following equations has a domain of all real numbers and a range where $y \le 1$?

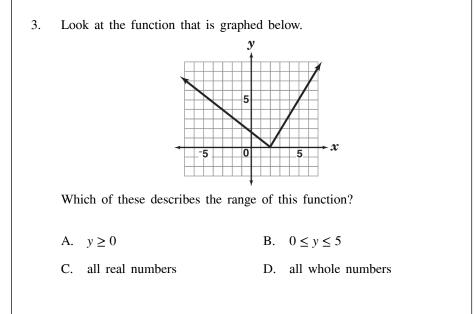
A.
$$y = -2(x - 3)^2 - 1$$

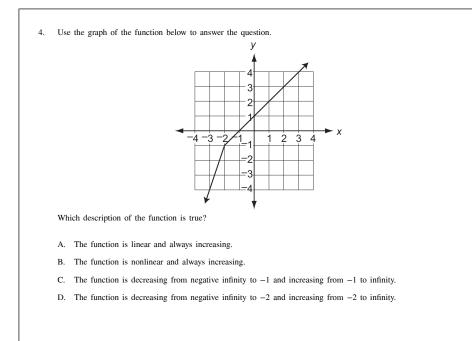
B. $y = -2(x - 3)^2 + 1$

$$y = 2(x-3)^2 - 1$$
 D. $y = 2(x-3)^2 + 1$

C.





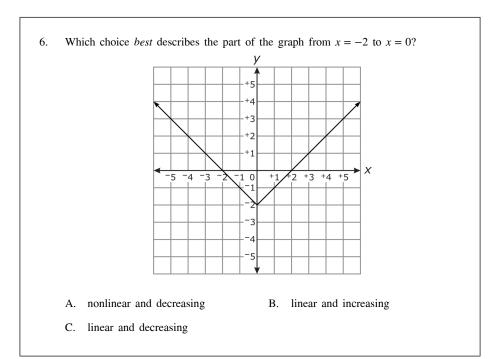


5. Which function has zeros at 3 and -5 with a multiplicity of 2?

A.
$$y = x^2 + 2x - 15$$

B. $y = x^2 - 2x - 15$

C.
$$y = x^3 + 7x^2 - 5x - 75$$
 D. $y = x^3 - 7x^2 - 5x + 75$



- 7. In which direction does the graph of $y = \sqrt{x + a}$ shift as the value of *a* decreases?
 - A. upward B. downward
 - C. to the right D. to the left

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M3 Functions Review 10/21/2014

1. Answer: Objective:	B F.IF.01
2. Answer:	С
3. Answer:	А
4. Answer:	В
5. Answer:	С
6. Answer:	С
7. Answer:	С