

## Transformations of Functions

1. Describe the transformation  
(ex: 01)

$$f(x) = x^2 + 3$$

2. Describe the transformation  
(ex: 02)

$$f(x) = |x| - 2$$

3. Describe the transformation  
(ex: 03)

$$f(x) = (x + 1)^2$$

4. Describe the transformation  
(ex: 04)

$$f(x) = |x - 5|$$

5. Describe the transformation  
(ex: 05)

$$f(x) = -x^2$$

6. Describe the transformation  
(ex: 06)

$$f(x) = \sqrt{-x}$$

7. Describe the transformation  
(ex: 07)

$$f(x) = \sqrt{-x + 4}$$

8. Describe the transformation  
(ex: 08)

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

9. Describe the transformation  
(ex: 09)

$$C(x) = 10x + 500,000$$

10. Describe the transformation  
(ex: 10)

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

11. Describe the transformation  
(ex: 11)

$$f(x) = \frac{1}{2}x^2$$