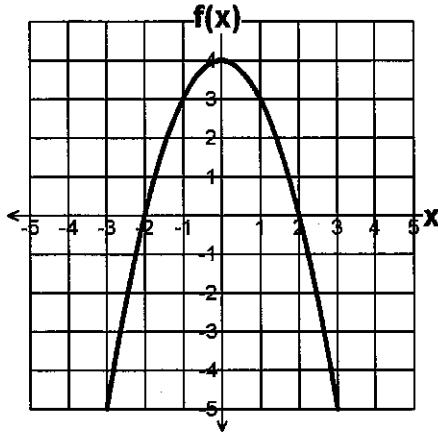


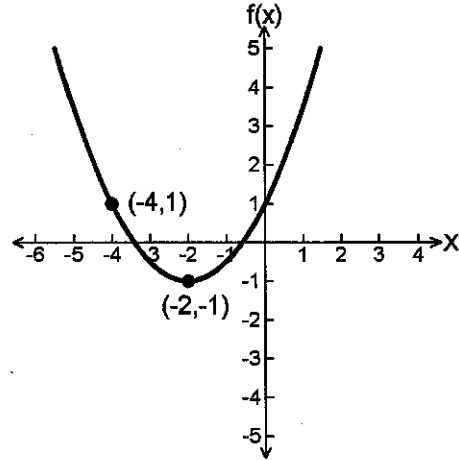
Name \_\_\_\_\_

Period \_\_\_\_\_



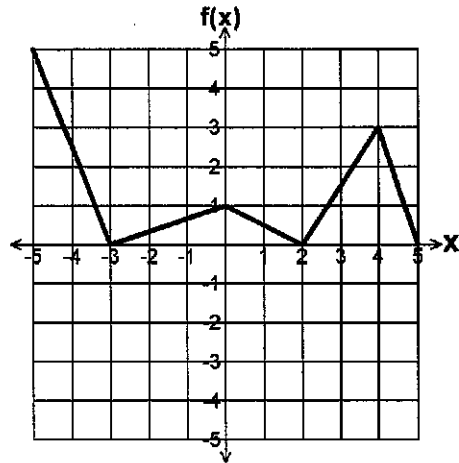
1. The figure above shows the graph of quadratic function  $f$ . Which function represents  $f$ ?

- a)  $f(x) = x^2 - 2$       b)  $f(x) = 2 - x^2$   
 c)  $f(x) = x^2 - 4x + 4$       d)  $f(x) = x^2 - 4$   
 e)  $f(x) = 4 - x^2$



2. The figure above shows the graph of quadratic function  $f$  with vertex at  $(-2, -1)$ . Which function represents  $f$ ?

- a)  $f(x) = \frac{1}{3}(x+2)^2 - 1$       b)  $f(x) = \frac{1}{2}(x-2)^2 + 1$   
 c)  $f(x) = \frac{1}{4}(x+2)^2 + 1$       d)  $f(x) = \frac{1}{2}(x+2)^2 - 1$   
 e)  $f(x) = \frac{1}{4}(x+1)^2 - 2$



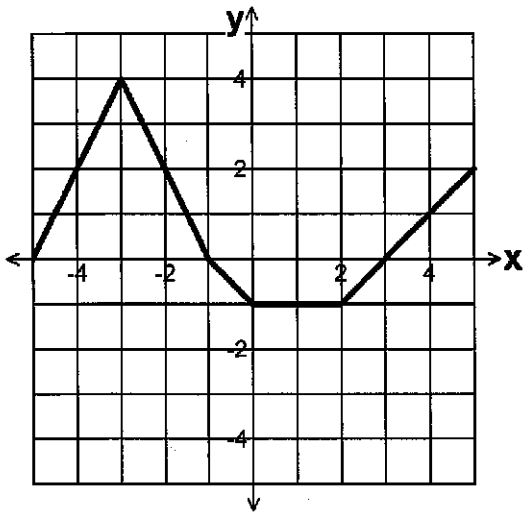
3. The figure above shows the graph of function  $f$ . What is an  $x$ -intercept of  $f$ ?

- a) 0      b) 1      c) 2      d) 3      e) 4

Algebra 2  
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4. The figure above shows the graph of function  $f$ . If the function  $g$  is defined by  $g(x) = f(x + 3) - 2$ , what is the value of  $g(1)$ ?
- a) -4    b) -1    c) 1    d) 2    e) 4

5. Which of the following is an approximate root of  $\cos x = 2x$ .

- a) -0.451    b) -0.450    c) 0.350  
d) 0.450    e) 0.456

Remember:

To do this problem

1.) Put the left-side  
in as  $y_1$ .

2.) Put the right side  
in as  $y_2$ .

3.) Graph and find  
the point of  
intersection