Question 1

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

Which of the following functions has the same graph as f, but shifted down two units?

A. $g(x) = (x-2)^2$

B. $g(x) = (x+2)^2$

C. $g(x) = x^2 + 2$

D. $g(x) = x^2 - 2$

E. $g(x) = (x-2)^2 + 2$

F. $g(x) = (x-2)^2 - 2$

Question 1

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Which of the following functions has the same graph as f, but shifted down two units?

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E. $g(x) = (x-2)^2 + 2$

F. $g(x) = (x-2)^2 - 2$

D. $g(x) = x^2 - 2$

Question 1

The graph of

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

matches the graph of $f(x)$ but is shifted down two units.

Question 2

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

Which of the following functions has the same graph as f, but shifted two units to the left?

A. $g(x) = (x-2)^2$

B. $g(x) = (x+2)^2$

C. $g(x) = x^2 + 2$

D. $g(x) = x^2 - 2$

E. $g(x) = (x-2)^2 + 2$

F. $g(x) = (x-2)^2 - 2$

Question 2

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

Which of the following functions has the same graph as f, but shifted two units to the left?

A. $g(x) = (x-2)^2$

B. $g(x) = (x+2)^2$

C. $g(x) = x^2 + 2$

D. $g(x) = x^2 - 2$

E. $g(x) = (x-2)^2 + 2$

F. $g(x) = (x-2)^2 - 2$

B. $g(x) = (x+2)^2$

Question 2

The graph of

$$y = f(x + 2)$$

matches the graph of $f(x)$ but is shifted two units to the left.

Question 3

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

Which of the following functions has the graph of f, but shifted two units to the right and two down?

A. $g(x) = (x-2)^2$

B. $g(x) = (x+2)^2$

C. $g(x) = x^2 + 2$

D. $g(x) = x^2 - 2$

E. $g(x) = (x-2)^2 + 2$

F. $g(x) = (x-2)^2 - 2$

Question 3

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

Which of the following functions has the graph of f, but shifted two units to the right and two down?

A. $g(x) = (x-2)^2$

B. $g(x) = (x+2)^2$

C. $g(x) = x^2 + 2$

D. $g(x) = x^2 - 2$

E. $g(x) = (x-2)^2 + 2$

F. $g(x) = (x-2)^2 - 2$

F. $g(x) = (x-2)^2 - 2$

Question 3

The graph of

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

matches the graph of $f(x)$ but is shifted two units to the right.

Question 3

The graph of

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

matches the graph of $f(x)$ but is shifted two units to the right.

The graph of

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

matches the graph of $f(x)$ but is shifted two units to the right and two down.

Question 4

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

Which of the following functions has the graph of f, but shifted two units up?

A. $g(x) = (x-2)^2$

B. $g(x) = (x+2)^2$

C. $g(x) = x^2 + 2$

D. $g(x) = x^2 - 2$

E. $g(x) = (x-2)^2 + 2$

F. $g(x) = (x-2)^2 - 2$

Question 4

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

Which of the following functions has the graph of f, but shifted two units up?

A. $g(x) = (x-2)^2$

B. $g(x) = (x+2)^2$

C. $g(x) = x^2 + 2$

D. $g(x) = x^2 - 2$

E. $g(x) = (x-2)^2 + 2$

F. $g(x) = (x-2)^2 - 2$

C. $g(x) = x^2 + 2$

Question 4

The graph of

$$y = f(x) + 2$$

matches the graph of $f(x)$ but is shifted two units up.

Question 5

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

Which of the following functions has the graph of f, but shifted two units to the right?

A. $g(x) = (x-2)^2$

B. $g(x) = (x+2)^2$

C. $g(x) = x^2 + 2$

D. $g(x) = x^2 - 2$

E. $g(x) = (x-2)^2 + 2$

F. $g(x) = (x-2)^2 - 2$

Question 5

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

Which of the following functions has the graph of f, but shifted two units to the right?

A. $g(x) = (x-2)^2$

B. $g(x) = (x+2)^2$

C. $g(x) = x^2 + 2$

D. $g(x) = x^2 - 2$

E. $g(x) = (x-2)^2 + 2$

F. $g(x) = (x-2)^2 - 2$

A. $g(x) = (x-2)^2$

Question 5

The graph of

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

matches the graph of $f(x)$ but is shifted two units to the right.

Question 6

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

Which of the following functions has the graph of f reflected across the x-axis?

A. $g(x) = -x^2 - 3x + 2$

B. $g(x) = x^2 - 3x - 2$

C. $g(x) = (x-1)^2 + 3(x-1) - 2$

D. $g(x) = x^2 + 3x - 4$

E. $g(x) = -x^2 - 3x$

F. $g(x) = x^2 - 3x + 2$

Question 6

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

Which of the following functions has the graph of f reflected across the x-axis?

A. $g(x) = -x^2 - 3x + 2$

B. $g(x) = x^2 - 3x - 2$

C. $g(x) = (x-1)^2 + 3(x-1) - 2$

D. $g(x) = x^2 + 3x - 4$

E. $g(x) = -x^2 - 3x$

F. $g(x) = x^2 - 3x + 2$

A. $g(x) = -x^2 - 3x + 2$

Question 6

The graph of

$$y = -f(x)$$

matches the graph of $f(x)$ but is reflected across the x-axis.

Question 7

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

Which of the following functions has the graph of f reflected across the y-axis?

A. $g(x) = -x^2 - 3x + 2$

B. $g(x) = x^2 - 3x - 2$

C. $g(x) = (x-1)^2 + 3(x-1) - 2$

D. $g(x) = x^2 + 3x - 4$

E. $g(x) = -x^2 - 3x$

F. $g(x) = x^2 - 3x + 2$

Question 7

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

Which of the following functions has the graph of f reflected across the y-axis?

A. $g(x) = -x^2 - 3x + 2$

B. $g(x) = x^2 - 3x - 2$

C. $g(x) = (x-1)^2 + 3(x-1) - 2$

D. $g(x) = x^2 + 3x - 4$

E. $g(x) = -x^2 - 3x$

F. $g(x) = x^2 - 3x + 2$

B. $g(x) = x^2 - 3x - 2$

Question 7

The graph of

$$y = f(-x)$$

matches the graph of $f(x)$ but is reflected across the y-axis.

Question 8

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

Which of the following functions has the graph of f reflected across the x-axis and shifted down 2 units?

A. $g(x) = -x^2 - 3x + 2$

B. $g(x) = x^2 - 3x - 2$

C. $g(x) = (x-1)^2 + 3(x-1) - 2$

D. $g(x) = x^2 + 3x - 4$

E. $g(x) = -x^2 - 3x$

F. $g(x) = x^2 - 3x + 2$

Question 8

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

Which of the following functions has the graph of f reflected across the x-axis and shifted down 2 units?

A. $g(x) = -x^2 - 3x + 2$

B. $g(x) = x^2 - 3x - 2$

C. $g(x) = (x-1)^2 + 3(x-1) - 2$

D. $g(x) = x^2 + 3x - 4$

E. $g(x) = -x^2 - 3x$

F. $g(x) = x^2 - 3x + 2$

E. $g(x) = -x^2 - 3x$

Question 8

The graph of

$$y = -f(x)$$

matches the graph of $f(x)$ but is reflected across the x-axis.

Question 8

The graph of

$$y = -f(x)$$

matches the graph of $f(x)$ but is reflected across the x-axis.

The graph of

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

matches the graph of $f(x)$ but reflected across the x-axis and shifted two units down.