

Question 1

What is the equation of a line that is parallel to

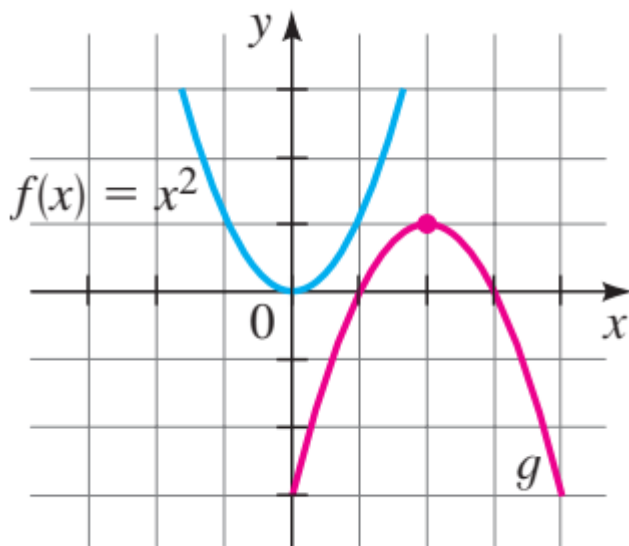
$$3y + 2x = 2$$

and passes through the point $(2, -1)$.

- A) $y = -\frac{2}{3}x + 1$
 - B) $2y + 3x = 4$
 - C) $y = \frac{3}{2}x - 4$
 - D) $y = -\frac{2}{3}x + \frac{1}{3}$
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Question 2

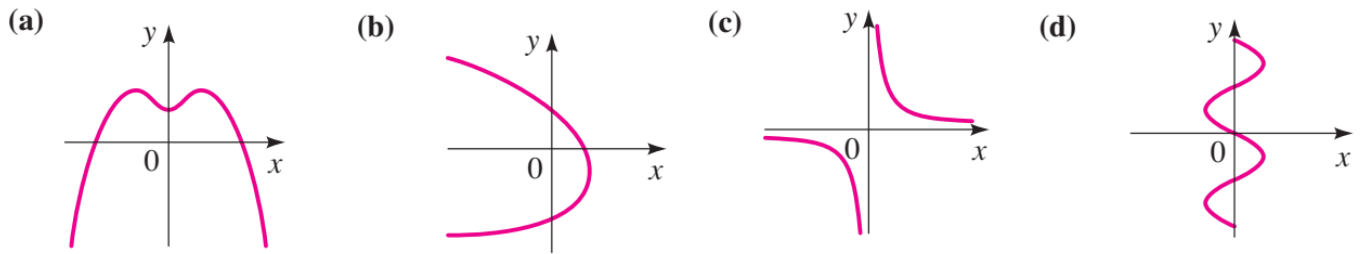
What is the formula of the function g whose graph is shown below



- A) $y = (x - 2)^2$
 - B) $y = -(x - 2)^2$
 - C) $y = 1 - (x - 2)^2$
 - D) $y = (2 - x)^2 + 1$
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Question 3

Which of the following curves are not the graph of a function? Choose the best answer



- A) The curve (c)
 B) The curves (b) and (d)
 C) The curves (b) and (c)
 D) the curves (d)
 E) The curves (c) and (d)
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Question 4

What is the inverse function of the function $y = \frac{1}{x-1}, x \neq 1$

- a) $y = x - 1$
 b) $y = \frac{1}{x+1}, x \neq -1$
 c) $y = \frac{1}{x} + 1, x \neq 0$
 d) $y = 1 - \frac{1}{x}, x \neq 0$
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Question 5

What is the composite function $g \circ f$ for $f(x) = \frac{x}{x+1}$ and $g(x) = 2x - 1$

- a) $y = 1 - \frac{2}{x+1}$
 b) $y = 1 - \frac{1}{2x}$
 c) $y = \frac{(2x-1)x}{x+1}$
 d) $y = \frac{2}{x+1} - 1$