1. Let f be a differentiable function such that f(2) = 12, f(5) = 10, $f'(2) = -7$ and $f'(5) = 4$.

The function g is differentiable and $g(x) = f^{-1}(x)$ for all x. What is the value of $g'(12)$?

a) -1/7 b) -1/2 c) 1/4 d) 1/9

e) The value of $g'(12)$ cannot be determined

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The function g is differentiable and $g(x) = f^{-1}(x)$ for all x. What is the value of $g'(10)$?

a) -1/7 b) -1/2 c) 1/4 d) 1/9

e) The value of $g'(10)$ cannot be determined

1. Let f be a differentiable function such that f(3) = 11, f(12) = 6, $f'(3) = 9$ and $f'(12) = -2$.

The function g is differentiable and $g(x) = f^{-1}(x)$ for all x. What is the value of $g'(11)$?

a) -1/7 b) -1/2 c) 1/4 d) 1/9

e) The value of $g'(11)$ cannot be determined

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The function g is differentiable and $g(x) = f^{-1}(x)$ for all x. What is the value of $g'(6)$?

a) -1/7 b) -1/2 c) 1/4 d) 1/9

e) The value of $g'(6)$ cannot be determined

4. *If* $f(3) = -1$, $f'(3) = \frac{6}{5}$, and $g(x) = f^{-1}(x)$,

what is the equation of the tangent line to g(x)

at x = -1?

A) $y + 3 = \frac{-6}{5}(x - 1)$

B) $y - 3 = \frac{6}{5}(x - 1)$

C) $y + 1 = \frac{5}{6}(x - 3)$

D) $y - 3 = \frac{5}{6}(x + 1)$

E) $y + 3 = \frac{-5}{6}(x - 1)$

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C) $y + 1 = \frac{6}{5}(x-3)$

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