

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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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 $g'(11)$?

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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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