Quiz 2.6

1. Let f and g be differentiable functions such that f'(1) = 2 and g'(1) = 6. If $h(x) = 5f(x) - 4g(x) + 3x^2 - 2$, what is the value of h'(1)?

A -10

- **(B)** −8
- (c) 2

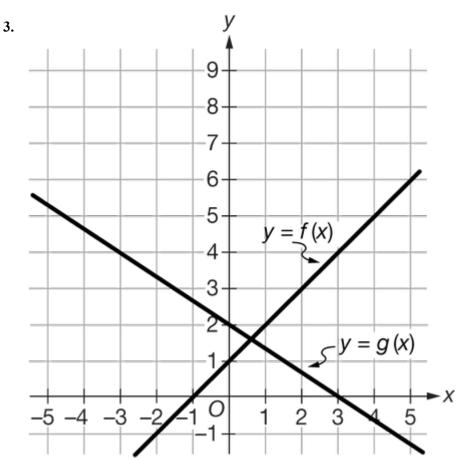
D 40

- 2. Let f be the function given by $f(x) = 2x^3 4x^2 5$. What is the value of f'(-1)?
- (A) -14
- **B** 6
- **(c)** 9
- **D** 14



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Quiz 2.6



The graphs of the linear functions f and g are shown above. If h(x) = f(x) + g(x), then h'(x) = f(x) + g(x), then h'(x) = f(x) + g(x).

- $(A) \frac{5}{3}$
- **B** 0
- $\bigcirc \frac{1}{3}$
- (D) $\frac{1}{3}x + 3$