If $f(x) = (x^2 - 2)(3x^3 + 1)$ then (the derivative of f(x)) $\grave{f}(x)$ =

a. $15x^4 - 18x^2 + 2x$

b. $-15x^4 - 18x^2 + 2x$

c. $3x^4 + 18x^2 + 2x$

d. $(2x)(9x^2)$

If $f(x) = \frac{x^2-2}{x^2-x}$ then (the derivative of f(x)) $\grave{f}(x)$ =

a. $\frac{4x^3-3x^2-4x+2}{(x^2-x)^2}$

b. $-\frac{-x^2+4x-2}{(x^2-x)^2}$

c. $\frac{-x^2+4x-2}{(x^2-x)}$

d. $\frac{-x^2+4x-2}{(x^2-2)(x^2-x)}$

If f and g are differentiable functions and

$h(x) = f(x).g(x)$, $f(0) = 1$, $\grave{f}(0) = -2$, $g(0) = 3$, $\grave{g}(0) = 4$

Find $\grave{h}(0)$?

a. -10

b. 2

c. 10

d. -2