Use the chart above to find the derivative of each of the following:

(a) $2f(x)$ at $x = 2$

(b) $f(x) + g(x)$ at $x = 3$

(c) $f(x) \cdot g(x)$ at $x = 3$

(d) $\frac{f(x)}{g(x)}$ at $x = 2$

(e) $f(g(x))$ at $x = 2$

(f) $\sqrt{f(x)}$ at $x = 2$

(g) $\frac{1}{g^2(x)}$ at $x = 3$

(h) $\sqrt{f^2(x) + g^2(x)}$ at $x = 2$