

## Answer on Question #55742 – Math – Calculus

If  $f$  and  $g$  are two functions of  $x$ , then .....

A.  $\frac{d}{dx} \left( \frac{f}{g} \right) = \frac{f \frac{d}{dx} g - g \frac{d}{dx} f}{f^2}$

B.  $\frac{d}{dx} \left( \frac{f}{g} \right) = \frac{g \frac{d}{dx} f - f \frac{d}{dx} g}{f^2}$

C.  $\frac{d}{dx} \left( \frac{f}{g} \right) = \frac{g \frac{d}{dx} f - f \frac{d}{dx} g}{g^2}$

D.  $\frac{d}{dx} \left( \frac{f}{g} \right) = \frac{g \frac{d}{dx} f - f \frac{d}{dx} g}{g^2}$

### Solution

If  $f$  and  $g$  are two functions of  $x$ , then

D.  $\frac{d}{dx} \left( \frac{f}{g} \right) = \frac{g \frac{d}{dx} f - f \frac{d}{dx} g}{g^2}$  is correct.