

Mathematics 122

Quiz #17

Name: _____

Compute the following derivatives. In these problems a , b , and c are constants.

(1) $y = 3xe^x$ $y' =$ _____

(2) $A = 6re^{r^2}$ $\frac{dA}{dr} =$ _____

(3) $w = \sqrt{z}e^{2z}$ $\frac{dw}{dz} =$ _____

(4) $C(q) = \frac{3q}{1+2q}$ $C'(q) =$ _____

(5) $F(t) = \frac{e^t}{2+e^t}$ $F'(t) =$ _____