Quiz #16

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

(1) $y = 3(2x+1)^{17}$	y' =
(2) $A = 6(3e^r + r)^5$	$\frac{dA}{dr} = \underline{\qquad}$
(3) $w = 3\ln(z^3 + z)$	$\frac{dw}{dz} = $
$(4) C(q) = 5a\sqrt{q^2 + 1}$	C'(q) =

(5) $F(t) = be^{\pi^2} + ce^{t^2}$ F'(t) =_____

Name:_____