Mathematics 122 Quiz #25

Name: _____

Compute the following derivatives:

1. $y = \dfrac{3}{\sqrt{x}} + \dfrac{4}{x}$

$y' =$

2. $C(q) = 5000 + 10q + .0001q^{100}$

$C'(q) =$

3. $y = 4(x^2 + x)^8$

$y' =$

4. $A(r) = \dfrac{(r^3 + 2r)^4}{17}$

$A'(r) =$

5. $y = \pi^2 + 3x^4$

$y' =$