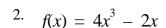(C1-7.6) Name:

Homework Questions 6 - 2nd Order Derivatives

For each questions find the 2nd order derivative

1. $y = 7x^3 - 2x^2 + 3$

2. $f(x) = 4x^3 - 2x$

3. $f(x) = 8x^2 - 5x - 3$

4. $y = \sqrt{x} + x^2$

5. $y = x^{\frac{1}{2}} + x^{\frac{1}{3}}$

6. $f(x) = 6 - 5x + \dfrac{7}{x}$

7. $f(x) = 6\sqrt{x} - \dfrac{4}{x^2}$

8. $y = (x + 2)(x - 3)$

9. $y = (x + 6)^2$

10. $f(x) = \dfrac{x^2}{3} - 2x^2 + x - \sqrt{x} + 5$