QUIZ 6

Directions: Find the derivatives of the given functions. Perform any "obvious" simplifications.

1. $f(x) = 4x^5 - 3x^2 + 2x + 1$

2. $g(x) = \dfrac{x^3}{3} + \pi^3$

3. $y = \dfrac{1}{5\sqrt[3]{x}}$

4. $g(x) = \dfrac{2}{x}$

5. $h(x) = \dfrac{2 + \sqrt{2}}{x}$

Directions: Find the derivatives of the given functions. Perform any "obvious" simplifications.

1. $f(x) = 4x^4 - 2x^3 - x + 1$

2. $y = \dfrac{3}{x^3}$

3. $f(x) = \sqrt[3]{x^{-2}} + \sqrt[3]{2^{-2}}$

4. $g(x) = \dfrac{1}{2x^2}$

5. $h(x) = \dfrac{2 + \pi}{x}$