Find the derivatives of the given functions.

1. $f(x) = 3x^5 - 7x^2 + 4x + 1$

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

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

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

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

Find the derivatives of the given functions.

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

2. $y = \dfrac{1}{3x^3}$

3. $f(x) = 10\sqrt{x} + 5x$

4. $g(x) = \dfrac{1}{\sqrt[3]{x^2}}$

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