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Name: \_\_\_\_\_

QUIZ 6 

MATH 200  
September 9, 2025

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Find the derivatives of the given functions.

1.  $f(x) = 2x^{10} + 4x^5 + 20x + \sqrt{2}$

2.  $g(x) = \frac{1}{2x^3} + 2$

3.  $y = \frac{1}{x}$

4.  $g(x) = \sqrt[5]{x^2}$

5.  $h(x) = \frac{1}{\sqrt{x}}$

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Find the derivatives of the given functions.

1.  $f(x) = \frac{x^4}{4} - \pi x^3 - x + 6$

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

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

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

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