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

QUIZ 6 

MATH 200  
September 12, 2023

**Directions:** Find the derivatives of the given functions. Perform any “obvious” simplifications.

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


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

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

4.  $g(x) = \frac{1}{\sqrt{2}} + \frac{1}{\sqrt{x}}$

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**Directions:** Find the derivatives of the given functions. Perform any “obvious” simplifications.

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

2.  $y = 8\sqrt[3]{x}$

3.  $g(x) = \frac{x^5}{5 + \sqrt{2}}$

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