

Limits of the Difference Quotient

Directions: Find the derivative of each function using a limit.

1. $f(x) = 3x - 5$

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

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

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

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