

Pre-AP Precalculus

Assignment 1.4 – Difference Quotient

Given each function, find the difference quotient

1) $f(x) = -4x + 3$

2) $f(x) = 1 - x$

3) $f(x) = x + 1$

4) $f(x) = 2x + 5$

5) $f(x) = 4x^2 - 5$

6) $f(x) = -x^2 + 4$

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

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

9) $f(x) = x^2 + 2x + 4$

10) $f(x) = 2x^2 + 1$

11) $f(x) = \frac{1}{x+3}$

12) $f(x) = \frac{2}{x+5}$

13) $f(x) = -\frac{1}{2x+7}$

14) $f(x) = \sqrt{x}$

15) $f(x) = \sqrt{2x+1}$

16) $f(x) = x^6$

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17) $f(x) = 5x^3$

18) $f(x) = 2x^4 - x^3$