

Sec 4.4

## Rates of change in polynomial functions

Recall:

Average rate of change:

-really just slope of secant line

Instantaneous rate of change:

-really just slope of tangent line

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Ex:

Find the average rate of change from  $x=2$  to  $x=6$  for the function  $f(x)=3x^3 - 4x + 5$

Formula

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Ex 2:

Find the IRC for  $x=2$  for the function

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

Formula

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## Homework

p235 #1,2,5,6ace, 8

## Review questions

p240-242 as needed. (Omit #12,18 on p241).

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