

Calculus:

Homework  
11/13-11/21

on: Tuesday: test

due: Thursday: read pp. 228-234  
pp. 237-239 / #11, 12, 23, 35, 51, 54

Friday: read pp. 234-237  
pg. 237 / #2, 4, 6, 7, 8, 18, 19, 20

Monday: read pp. 243-245

1. Given:  $f(x) = x^2 + 3x - 4$   
Find: (a)  $\Delta y$  (b)  $dy$  (c)  $\Delta y - dy$
2. Using differentials, approximate: (a)  $\sqrt{36.2}$  (b)  $\sqrt[3]{7.9}$

Tuesday: read pp. 239-243

1. pg. 249 / #3, 5
2. Using differentials, approximate:  $\sqrt[4]{81.1}$

Monday:

If  $f(c) = d$ , find  $f^{-1}'(d)$  for each given function:

1.  $f(x) = 2x + 3, d = 1$
2.  $f(x) = \frac{1-2x}{x+2}, d = -7$

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