

Math 1121

Homework #6

27a , # 40a

27a $N(p) = 80 - 5p^2$ from 2 to 3

$$\frac{N(3) - N(2)}{3 - 2} = \frac{(80 - 5 \cdot 3^2) - (80 - 5 \cdot 2^2)}{1}$$

$$= \frac{80 - 45 - (80 - 20)}{1}$$

$$= 35 - 60 = \boxed{-25}$$

40a 2007-2010: $\frac{17.3 - 14.2}{2010 - 2007} = 1.03$

$$2010 - 2013: \frac{16.5 - 17.3}{2013 - 2010} = -0.27$$

$$2007 - 2013: \frac{16.5 - 14.2}{2013 - 2007} = .38$$