

QUIZ 9

Name _____

1. If $f(3) = 17$ and $f'(3) = 4.6$, estimate $f(3.5)$

2. A model for the percentage of households with TVs that also have a VCRs is

$$p(x) = 40.818 + 17.388 \ln(x)$$

percent where x is the number of years since 1985. Decide how rapidly the percentage of households with TVs and VCRs was growing in 1995 and use this to estimate the number of households with TVs and VCRs in 1996.

3. Find all relative maximum and minimums for the function $f(x) = 3x^2 - 17x + 25$ between $x = 1$ and $x = 4$.