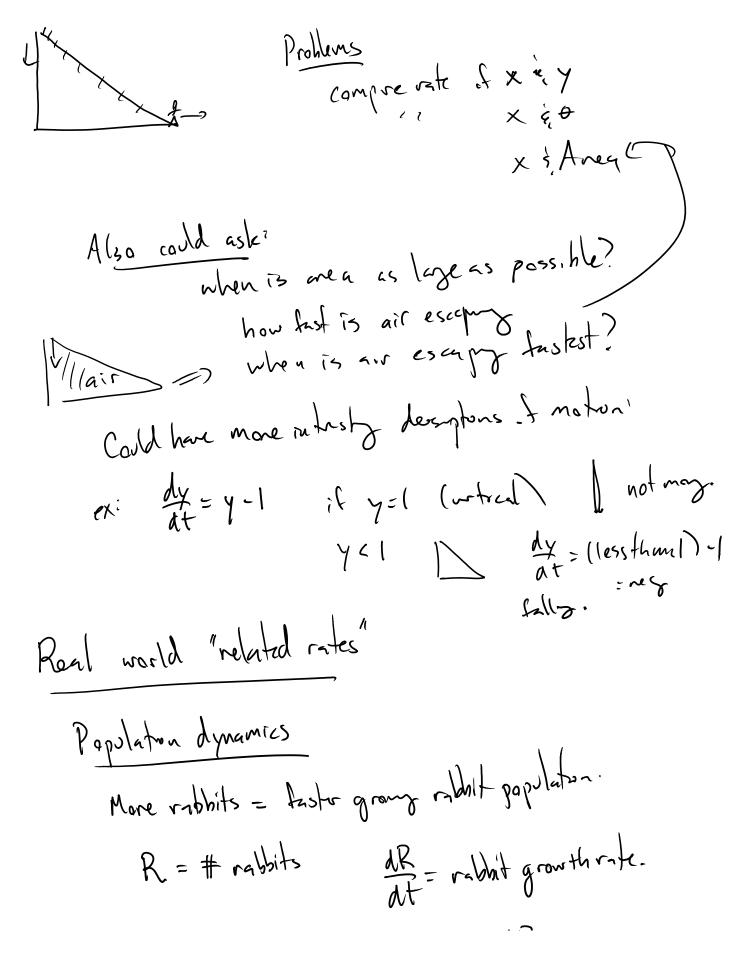
Thursday, March 2, 2017 12:33 PM



1

calc1 Page 4

only when reither
$$f'(x)>0$$
 nor when $f'(x)=0$
Said backwards? local min/max can only occur at points
where either
- $f'(x)=0$ or
- $f'(x)$ does not exist
So if $f'(c)=0$ as $f'(c)$ done we say that circa
(c in interior of domain of $f(x)$) critical point
(c in interior of domain of $f(x)$) critical point
(c in interior of domain of $f(x)$) critical point
(c in interior of domain of $f(x)$) critical point
(c in interior of domain of $f(x) = x^2 - 5x - 1$
Stop 1: locate critics
 $f'(x) = 2x - 5$ when is $f'(x)=0$
(c) $f'(x)$ not dotted?
defined employed.
 $f'(x)=0$ = $2x-5 = 5$ $x=\frac{5}{2}$ critical point

2x-5>0 2x>5 (mong x>5/2

