

AB Calc Unit 2 Review Sheet - Intro to Derivatives

Wednesday, September 28, 2011

1:58 PM

1. Corner, cusp, vertical tangent, discontinuity
2. a. $(-\infty, -3) \cup (-3, \infty)$
 b. $(-\infty, \infty)$
 c. $(-\infty, -2) \cup (-2, \infty)$
 d. $(-\infty, 7/2) \cup (7/2, \infty)$
3. a. $y'(0)=1$
 b. $f'(2)\approx 7.389$
 c. $y'(-2)$ DNE
 d. $g'(3)=3$
4. a. Tangent: $y=x$ Normal $y=-x$
 b. Tangent: $y-e^2=7.389(x-2)$ Normal: $y-e^2=-.135(x-2)$
5. a. $y'=3$
 b. $y'=-5/x^2$
 c. $f'(x)=-2x$
 d. $g'(x)=3/(2\sqrt{2x})$

