AP Calculus AB
Friday, October 4, 2013
Check over yesterday's quiz
2 Geogebra
File Edit View Options Tools Window Help
$\bigcirc$ Algebra $\boxtimes \mid \geqslant$ Graphics
8. Function
$-f(x)=x^{2}-2 x-5$
$g(x)=2 x-2$


## 1

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$$
\begin{aligned}
& f(x)(-\infty, 1) \quad(1, \infty) \\
& f^{\prime}(x)<0 \text { on }(-\infty, 1) \\
& f^{\prime}(x)>0 \text { on }(1, \infty)
\end{aligned}
$$

Determine the interval k) on which $f(x)$ is decreavis, increasing, and/or constant.

$$
f(x)=\frac{x^{3}}{3}+\frac{3 x^{2}}{2}-10 x+1
$$

When $f(x)<O, f(x)$ is decreasing.
When $f^{\prime}(x)>0, f(x)$ is increasing.

