

**235 Readiness Quiz**

September 2, 2010

Name: \_\_\_\_\_

*You may use your class notebook as long as all writing in the notebook is your own.  
No books, photocopied material, extra papers, calculators, cell phones, or peeking.*

1. Factor the polynomial  $x^4 + 2x^2 - 3$  as much as possible.

2. Find the value of  $\ln\left(\frac{1}{e^3}\right)$ .

3. If  $\cos \theta = -\frac{2}{3}$  and  $\tan \theta < 0$ , then what is the value of  $\sin \theta$ ?