

Readiness Quiz

Show *all* your work. No credit is given without reasonable supporting work. There are *two* sides to this quiz.

1. [4] Simplify the following:

$$\frac{2}{3} \cdot \frac{4}{5} - 5^2$$

$$\frac{10x - 20}{2x^2 - 8}$$

2. [3] Use algebra to solve for q in

$$-1 + \frac{1}{q+1} = 3$$

3. [3] Perform the indicated operation and simplify $\frac{2}{x^2+x} - \frac{3}{x^2}$.