

Readiness Quiz

Show *all* your work algebraically for each and simplify. No credit is given without supporting work. There are *two* sides to this quiz.

1. [4] Simplify the following:

$$-3^2 + 2(4 - 1)^2$$

$$\frac{6x^2 - 6}{9x + 9}$$

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

$$\frac{1}{m} = \frac{2}{m} + 5$$

3. [3] Perform the indicated operation and simplify $\frac{2}{x+1} - \frac{1}{x}$.