Name: _____

Math 80 Quiz 7
June 8, 2006

1. The sides of one square has length 3 inches more than the sides of a second square. The larger square has an area that is 21 square inches more than the smaller square. What are the lengths of the sides of the squares?

2. Find all values for which $\frac{2r-5}{r^2-5r+4}$ is undefined.

3. Write $\frac{y^2-5y-14}{y^2+y-2}$ in lowest terms.

4. Perform the indicated operations:

(a) $\frac{(a+b)^2}{5} \cdot \frac{30}{a+b}$

(b) $\frac{y^2+y-2}{y^2+3y-4} \div \frac{y+2}{y+3}$

(c) $\frac{5-x}{5+x} \cdot \frac{x+5}{x-5}$

(d) $\frac{r^2+r-6}{r^2+4r-12} \div \frac{r+3}{r-1}$