

## Math 98 Worksheet #6

July 24, 2007

1. Solve the following equations.

(a)  $6 - \frac{2}{x} = \frac{4}{x^2}$

(b)  $\frac{6}{y} - 2 = \frac{y}{y+1}$

(c)  $m^4 - 17m^2 = -72$

2. Solve the following equations for the indicated variable.

(a)  $F = \frac{m}{r^2}$  for  $r$

(b)  $k = 2s\sqrt{d}$  for  $d$

3. Two cars left an intersection at the same time. One traveled south and the other traveled east. After a certain amount of time, the eastbound car has traveled 14 miles further than the southbound car. How far has each car traveled if the distance between them was 4 miles more than the distance the east bound car has traveled?