***Pre-Calculus 11***

***Unit 7: Rational Expressions and Equations***

***Worksheet 7.5—Solving Rational Equations***

1. State the value of the variable for which each equation is undefined, then solve it.

a) b) c)

d) e) f)

2. Solve.

1. b) c)
2. e) f)
3. h) i)

3. Solve.

1. b) c)
2. e) f)

4. If and , solve for .

5. Sometimes it is helpful to solve for a specidic variable in a formula. For example, if you

solve for in the equation , the answer is .

1. Show algebraically how you could get this answer.
2. In the formula , solve for . Simplify your answer.
3. Solve for in the formula .

***Solutions***

1. a) b) c)

d) e)

f)

2. a) b) c)

d) e) f)

g) h) i)

3. a) b) c)

4. a) b) c) d)

5.

6. a) b)

c)