Math 20-1

Unit 5 – Assignment 2   
Adding & Subtracting Rational Expressions/Solving Rational Equations

Remember to show all your work relating to the question in a neat and organized manner! ***Circle*** or ***Box*** your final answer!

1. Add or subtract. Give answers in simplest form. Identify all non-permissible values. **[6 Marks]**
   1. ****

* 1. ****

* 1. ****

1. Add or subtract. Give answers in simplest form. Identify all non-permissible values. **[5 Marks]**
   1. ****
   2. ****
2. Solve each rational equation. Identify all non-permissible values. **[6 Marks]**
   1. ****
   2. 
   3. 
3. An elevator goes directly from the ground up to the observation deck of the Calgary Tower, which is at 160 m above the ground. The elevator stops at the top for 36 s before it travels directly back down to the ground. The time for the round trip is 2.5 minutes. The elevator descends at 0.7 m/s faster than it goes up.
   1. Determine an equation that could be used to find the rate of ascent of the elevator. **[1 Mark]**
   2. Simplify your equation to the form , ***where a, b, and c are integers***, and then solve.   
      **[2 Marks]**
   3. What is the rate of ascent in metres per second, to the nearest tenth? **[1 Mark]**