**EXTRA CREDIT FOR UNIT 1 (worth 9 points)**

**Please show all your work for each of these answers. You will attach this to a kmail to me for submission for grading. This extra credit is not mandatory to do, but would help your grade. You will not put this document in any dropboxes.**

**Use the figure and each given set of assumptions to find the values.**

**Given that ST=17x-3 and SW=7x+6, TW=WS and there is line RW running through the middle of the triangle.**

**find the following:**

**R**

1. **X 5**
2. **SW 41**
3. **TW 41**
4. **ST 82**

**S**

**T**

**A.**

**W**

**17x-3=2(7x+6)**

**17x-3=14x+12**

**3x=15**

**X=5**

**B.**

**SW=7x+6**

**X=5**

**SW=7(5)+6**

**SW=35+6**

**SW=41**

**C.**

**TW=SW**

**SW=41**

**TW=41**

**D.**

**ST=17x-3**

**X=5**

**ST=17(5)-3**

**ST=85-3**

**ST=82**

**or**

**SW+TW=ST**