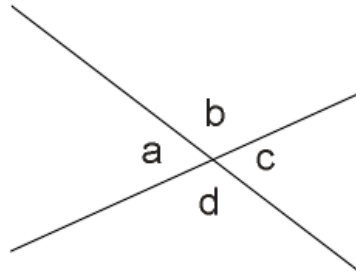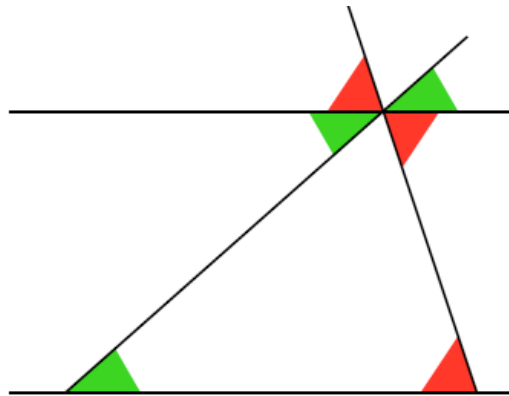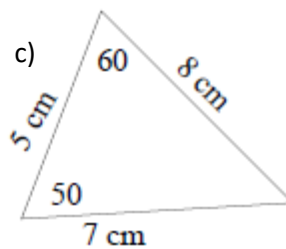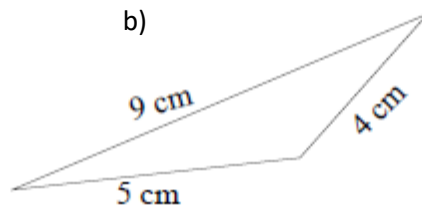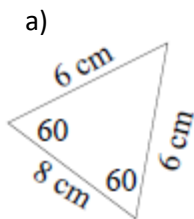# MATH 4: HOMEWORK 16
FEBRUARY 2, 2020

1. Using a ruler draw a picture similar to the one below and prove that opposite angles are the same. Use the knowledge that straight angle is 180 °.

2. Using ruler draw the picture similar to the one below, name the angles and prove that sum of the angles in a triangle is 180°.

3. The triangles with such measurements do not exist. Describe what is wrong with them:

a)

6 cm
60
8 cm 60
6 cm

b)

9 cm
4 cm
5 cm

c)

60   8 cm
5 cm
50
7 cm

4. Suppose (271 – N) is a multiple of 40. What is the smallest possible N?

5. Solve the equations:

(a) $x + 358 = 591$

(b) $945 - y = 17$

(c) $x - 113 = 119$

(d) $41x = 492$

(e) $x \div 13 = 11$

(f) $119 \div y = 17$

(g) $492x = 41$