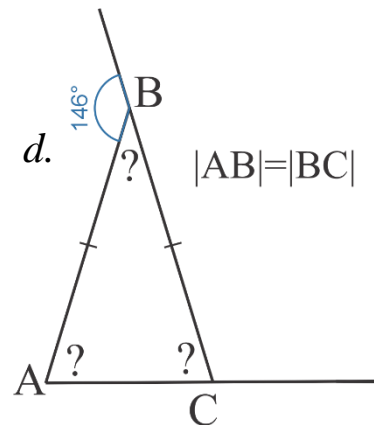
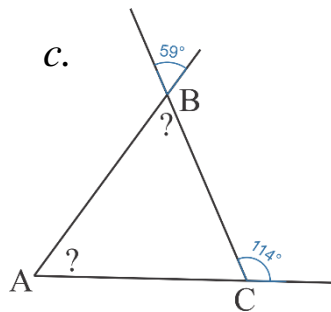
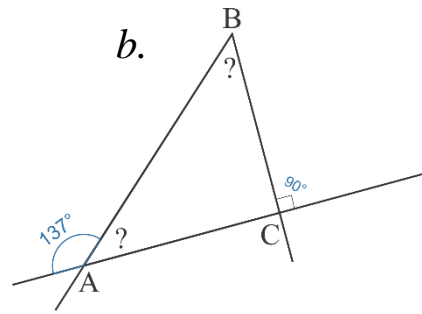
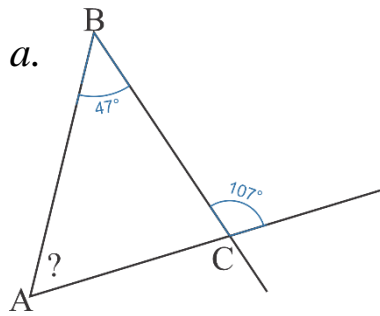


**Math 5b, homework 17.**

1. Draw a triangle. Draw all three medians in this triangle.
2. Draw a triangle. Draw all three altitudes in this triangle.
3. Find angles:



4. Compare numbers:

a.  $2.42424242 \dots$  and  $-2.42424242 \dots$ ;      b.  $5.44444444 \dots$  and  $5.54444444 \dots$

c.  $0.333333$  and  $\frac{1}{3}$ ;

d.  $-4.31313 \dots$  and  $-4.31311311131311 \dots$

e.  $0$  and  $-10.\bar{4}$ ;

f.  $0.\overline{12}$  and  $0.\overline{121}$

g.  $\frac{1}{9}$  and  $0.\bar{1}$ ;

h.  $0.\overline{27}$  and  $\frac{3}{10}$

5. The volume of the can is 4 liters, which is  $\frac{2}{7}$  the volume of the canister and 2% of the volume of the barrel.
- How much more liquid does the barrel hold than the can and canister taken together?
  - How many times is the volume of the barrel greater than the volume of the can?
  - How many canisters can be poured from a barrel filled to the brim? How much liquid is left?

6. Evaluate (answer 26):

$$\left( \frac{0.8 : \left( \frac{4}{5} \cdot 1.25 \right)}{0.84 - \frac{1}{25}} \right)^2 + \left( \frac{\left( 1.08 - \frac{1}{25} \right) : 2 \frac{3}{5} : 0.6}{\left( 2 \frac{1}{25} - 1 \frac{4}{5} \right) : 1 \frac{4}{5} + (2.6 - 2.6) \cdot 5 \frac{1}{25}} \right)^2$$

7. John and Robert ran in a race. John ran at the same speed all the way, and Robert ran twice as fast as John for the first half of the journey and twice as slow as John for the second half. Who won?