Algebra and Geometry 1. Homework 5.

From the class work 3 (see the file uploaded as a class work or class work handout)

Algebra: Please do the numbers #1, 2, 4, 5, 6.

Also please do

I. Evaluate the following using decimals:

$$a.\ 0.36+\frac{1}{2};\qquad b.\ 5.8-\frac{3}{4};\qquad c.\ \frac{2}{5}:0.001;\qquad d.\ 7.2\cdot\frac{1}{1000}$$

II. Evaluate the following using fractions:

$$a.\ \frac{2}{3}+0.6;\qquad b.\ 1\frac{1}{6}-0.5;\qquad c.\ 0.3\cdot\frac{5}{9};\qquad d.\ \frac{8}{11}:0.4;$$

III. Evaluate:

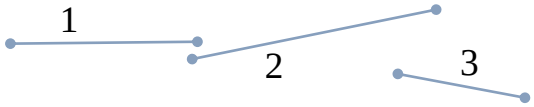
$$a.\frac{5\frac{1}{7}}{3\frac{3}{14}};\qquad b.\ \frac{1\frac{1}{3}\cdot 2\frac{3}{11}\cdot 3\frac{1}{2}}{\frac{1}{2}\cdot 4\frac{1}{6}\cdot 3\frac{9}{11}};\qquad s.\frac{1\frac{1}{2}\cdot 2\frac{2}{3}\cdot 0.36}{0.6\cdot 2\frac{1}{4}\cdot 1\frac{1}{3}};\qquad d.\ \frac{0.38\cdot 0.17\cdot 2\frac{2}{15}\cdot 2.7}{5.1\cdot 3\frac{4}{5}\cdot 0.064}$$

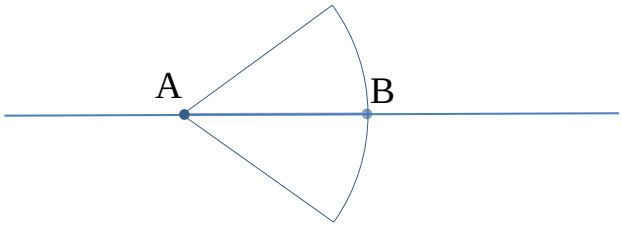
IV. Solve the following equations:

$$a.|3x|=9,\qquad b.|24-2x|=44$$

Geometry:

V. Construction of a triangle with sides, equal to the given segments.

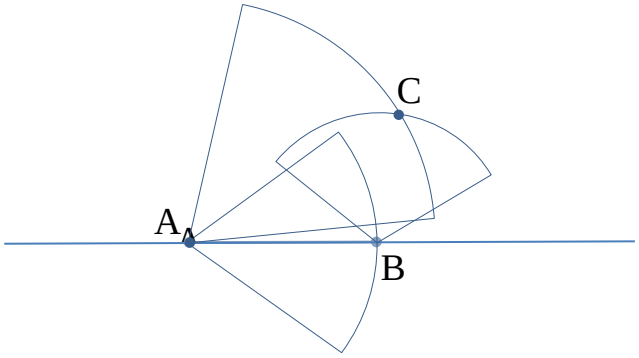




1. Draw a line, mark point A.

2. Using compass
   opened as the length of the segment.
   Mark the point B.

   3. With the point A as a
      center draw an arc with radius equal to the length of the segment 2, and with point B as a center and with radius equal to the length of the segment 3 draw a second arc. What you can say about the point of the intersection of the circle?



VI. Draw the picture below in your notebook. Use ruler and compass.