Classwork #17

1. Calculate:

- $\frac{3}{20} \times \frac{5}{9} = \frac{6}{7} \times \frac{1}{3} = \frac{2}{3} \cdot \frac{5}{6} =$ $\frac{1}{4}x \cdot \frac{2}{3} = 3 \cdot \frac{2}{5}x = 12x \cdot \frac{1}{6} =$ 2. Calculate: $\frac{1}{2} \cdot \frac{3}{4} = \frac{1}{2} \times \frac{3}{4} =$ $6 \times \frac{2}{3} = 6 : \frac{2}{3} =$
 - $12 \times \frac{3}{4} =$ 12 : $\frac{3}{4} =$
 - $7 : \frac{2}{7} = 7 \times \frac{2}{7} =$

3. Solve the equations:

a). 2x + |x + 1| = 3 **b).** $\frac{2x+1}{x-1} = 4$ 2x + 1 4

 $= x \times$

а

x - 1

4. *Solve the word problems:*

a). A fill-up pipe can fill a swimming pool in 4 hours. Another pipe can do the same job in 3 hours. How long will it take to fill the pool if both pipes work together?

b). An old printer can produce all needed copies in 3 hours. A newer model can do the same job in 2 hours. How long will it take both printers to do the job together? What fraction of the work will each printer perform?

5. Expand decimal fractions:	0.12	0.02	0.102	1.102
-------------------------------------	------	------	-------	-------

6. Divide [*AB*] into two equal segments.

7. Plot KM ⊥ AB.	• <i>K</i>

Additional:

Solve equations:

a).
$$\frac{x+1}{2x-1} = 2$$
 b). $2x + |x-1| = 2$