1. Mark with color pencil

a. Line $\overleftrightarrow{AB}$

A   B

b. Line segment $\overline{AB}$

A   B

c. Ray $\overrightarrow{AB}$

A   B

d. Ray $\overrightarrow{BA}$

A   B

2. Draw the line a and mark points A, B, C, D, K on the line a so that

a. Point C belongs to the segment $\overline{AB}$;

b. Point D belongs to the ray $\overrightarrow{AB}$ and doesn't belongs to the segment $\overline{AB}$;

c. Point K belongs to the ray $\overrightarrow{BA}$ and doesn't belongs to the segment $\overline{AB}$;\

3. Match the name with its picture

1. Point   a.

2. Line segment   b.

3. Line   c.

4. Ray   d.

5. Parallel lines   e.
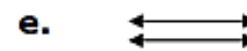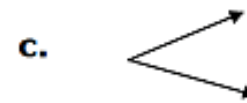
6. Perpendicular lines   f.

7. Angle   g.

8. Midpoint   h.

4. Solve the following equations:

a. $3z - 11 = 16$ b. $62 + 2y + 5 = 81$ c. $101 - 4x = 21$

d. $2x - 23 = 21$ e. $26 + 3y = 5$ f. $4z + 7 = 39$

7. Simplify:

a) 1 m + 8 m - 5 m =

b) $6x + 2x + 9x - 12 =$

c) $7x + 3 - 5x + 7 =$

d) $3 + 9x + 2xy - 4x =$

e) $3yz - 2z + 5yz + 8y =$

f) $34a - 10a + 8b - 2b + 2ab =$

8. On the first shelf there are 5 more books than on the second shelf and 5 less books than on the third shelf. There are 105 books altogether. How many books are there on each shelf? (Write an equation to solve the problem.)