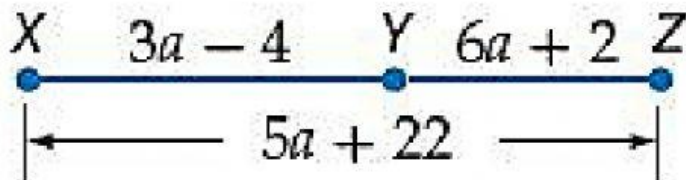1. $XY = 3a - 4, \; YZ = 6a + 2, \; XZ = 5a + 22$

SOLUTION:

Here Y is between X and Z.

$$XZ =$$
$$= 3a - 4 + 6a + 2$$
$$5a + 22 =$$
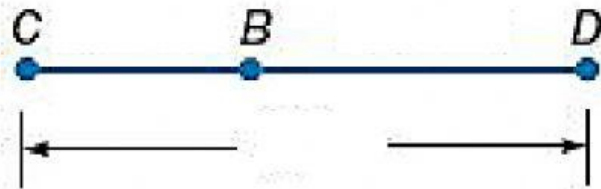$$5a + 2 + 22 = 9a - 2 + 2$$

$$5a - 5a + 24 = 9a - 5a$$

$$\frac{24}{\;} = \frac{4a}{\;}$$

$$a =$$

2. $CB = 4x - 9$, $BD = 3x + 5$, and $CD = 17$

SOLUTION:

Here B is between C and D.

$$= CB + BD$$
$$17 = $$
$$17 = $$
$$17 + 4 = 7x - 4 + 4$$

$$\frac{21}{} = \frac{7x}{}$$

$$x = $$