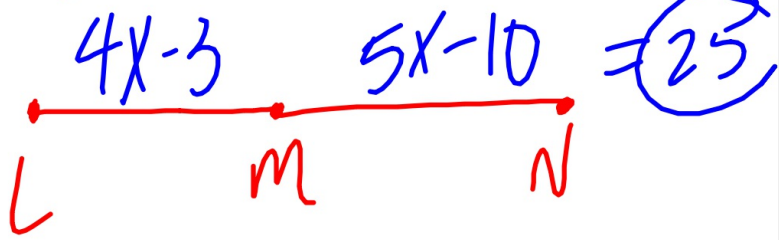


1. If M is the midpoint of $\overline{LN}$, find x if $LM = 4x - 3$ and $MN = 5x - 10$.

x = 7



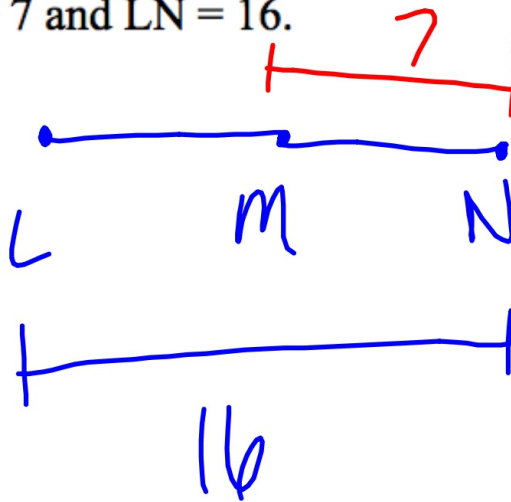
$$4x - 3 = 5x - 10$$

$$-3 = x - 10$$

$$x = 7$$

2. Find LM if $MN = 7$ and $LN = 16$.

LM = 9

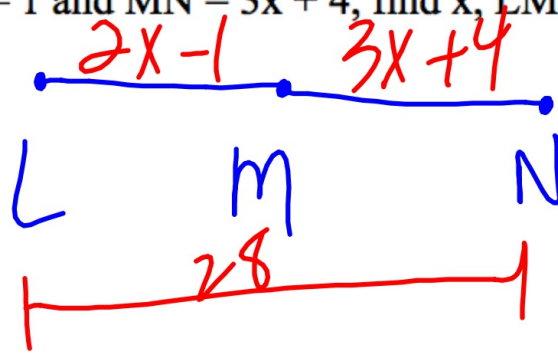


3. If $LN = 28$, $LM = 2x - 1$ and $MN = 3x + 4$, find x , LM and MN .

$x = \underline{5}$

$LM = \underline{9}$

$MN = \underline{19}$



$$2x - 1 + 3x + 4 = 28$$

$$5x + 3 = 28$$

$$x = 5$$

Use the diagram at the right to answer questions 4 – 9.

4. Name a pair of vertical angles.

$\angle EOD$ & $\angle AOB$

5. Name a right angle.

$\angle DOC$

6. Name an angle that is supplementary to $\angle DOE$.

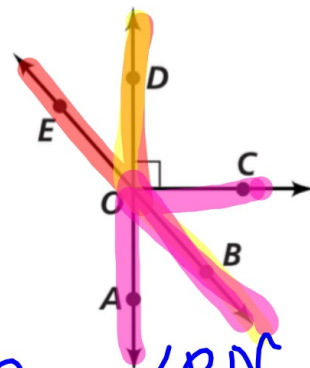
$\angle DOB$

7. Name an angle that is complementary to $\angle AOB$.

$\angle COB$ or $\angle BOC$

8. Name a straight angle.

$\angle EOB$



IXL #2 - due today at 4pm

C.1 & C.5