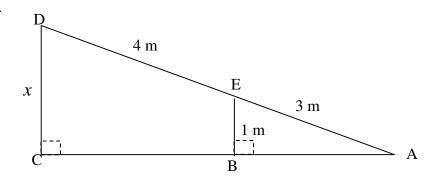
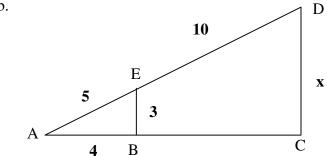
\*Show work and draw diagrams where necessary

## 1. Solve for $\mathbf{x}$ :

a.



b.



2. The length of a shadow of a monument is 26 m, when the length of Sonia's shadow is 7.8 m. If Sonia is 1.5 m tall, calculate the height of the monument.

3. On a steep section of a train route, the railway rises 5 m for every 200 m of track length. Through what height does the train rise in traveling 10 m along the track?

4. find ou	Shandra said that two triangles drawn on a page "looked" similar. How can she at for sure if they are or are not similar?
	Given one triangle, magnify the lengths of the sides by a scale factor of 2. How measures of the angles of this enlargened triangle compare with the angles of the all triangle?