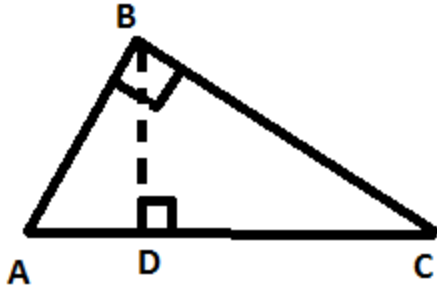


Name: _____
Date: _____
Class: _____

Geometry
Unit 4
HW 4-3



1) In the diagram – $AD = 8$, $DC = 18$, find BD

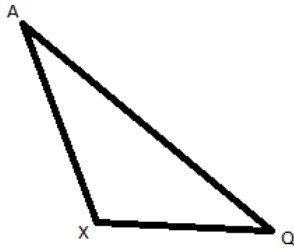
2) In the diagram – $AB = 10$, $AD = 5$, find BC

3) In the diagram – $DC = 8$, $AD = 10$, find BC

4) In the diagram – $AB = 12$, $BC = 14$, Find AD .

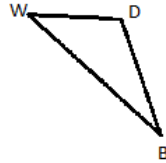
5) In the diagram – $AB = x + 6$, $AD = x + 2$, $DC = x + 10$ find DC .

6)

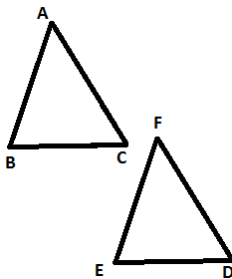


$$\triangle AXQ \sim \triangle BDW$$

If $AX = 3x + 3$, $BW = 2x$, $BD = x + 1$, and $AQ = 4x + 6$, find the scale factor for these triangles



7)



$$\triangle ABC \cong \triangle FDE$$

$m\angle B = x^2 + 2x + 8$, $m\angle E = 2x^2 - x - 2$, $m\angle D = 10x - 4$,
find $m\angle F$.