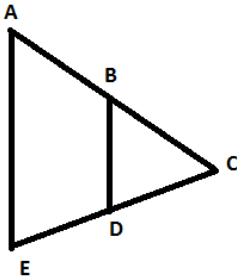
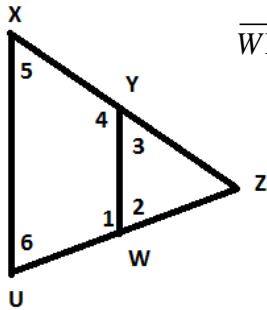


Name: _____
 Date: _____
 Class: _____

Geometry
 Unit 4
 HW 4-4



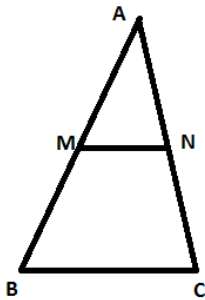
1) \overline{BD} is a midsegment in $\triangle ACE$. $CB = 12$, $CD = 14$, and $BD = 8$. What is the perimeter of $\triangle ACE$?



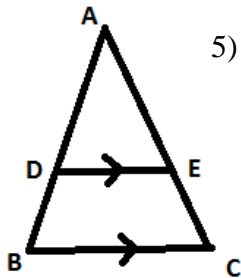
\overline{YW} is a midsegment

2) $XY = 2x + 2$, $YZ = 3x - 3$, $XU = 4x + 2$, find YW

3) $m\angle 2 = 2x + 10$, $m\angle 5 = 4x - 24$, and $\triangle ZUX$ is isosceles with $\angle Z$ as the vertex angle. Find $m\angle 1$.



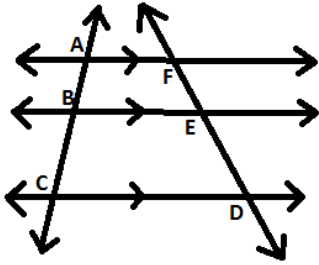
4) \overline{MN} is a midsegment. $MN = 4x + 5$, $BC = 2x^2 + 2x + 2$, $NC = 6x + 6$, Find AC .



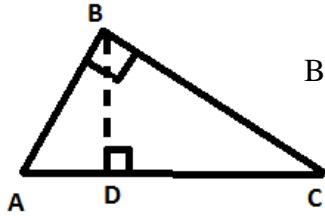
5) If $AC = x - 3$, $AD = 20$, $AE = 16$, and $AB = x + 5$, find AB

6) If $AE = 2$, $AD = 3$, $EC = 6$, and $DB = 2x - 3$, find x .

7) $AB = a - 2$, $BC = a + 1$, $FE = 2$, and $FD = 10$, find AC



8)



$BD = x^2 - x - 10$, $DC = x + 4$, $DC = 5x + 10$, find AC