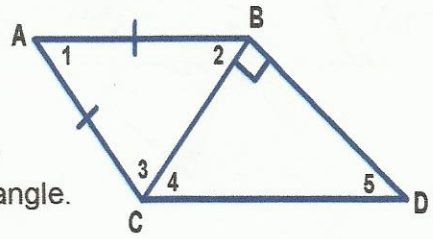
Geometry	Name: _____
3.4, 3.5, & 4.5 Review	Period: _____ Date: _____

1. Find the requested parts of the triangles.

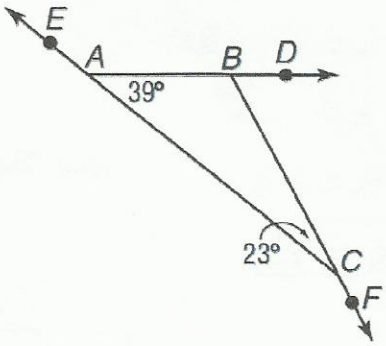


AC and AB a) Name the legs of the isosceles triangle.

CD b) Name the hypotenuse of the right triangle.

∠ABC and ∠ACB c) Name the base angles of the isosceles triangle.

2. Refer to the figure.



a) Name the three interior angles of the triangle.

∠BAC , ∠BCA , ∠ABC

b) Name three exterior angles of the triangle.

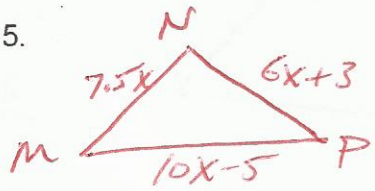
∠BAE , ∠DBC , ∠CFA

c. Name the remote interior angles of ∠EAB.

∠ABC , ∠BCA

Classify the following triangles by either angles or sides using the given information.

3. Equilateral / Equiangular The perimeter of triangle MNP is 45. $\overline{MN}$ = 7.5x, $\overline{NP}$ = 6x+3, and $\overline{MP}$ = 10x – 5.



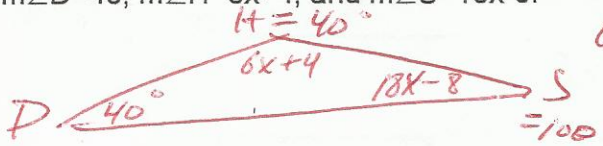
7.5x + 6x + 3 + 10x - 5 = 45

23.5x - 2 = 45

23.5x = 47

x = 2

4. Isosceles In triangle DHS, m∠D=40, m∠H=6x+4, and m∠S=18x-8.



6x + 4 + 18x - 8 + 40 = 180

24x + 36 = 180

24x = 144

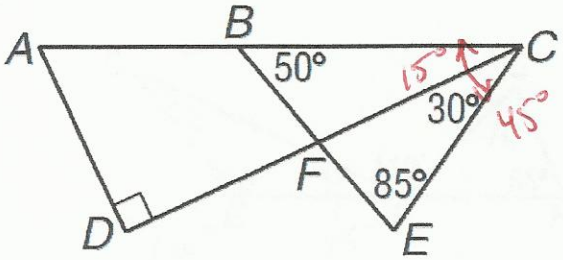
x = 6

Draw a triangle with the given conditions. Classify it by both sides and angles.

5. Isosceles Right ΔTIE, m∠T = 90, $\overline{TI}$ = 7, $\overline{TE}$ = 7

6. Scalene Right Classify Triangle ADC.

15° Find m∠ACD.



7. Find the measure of each angle.

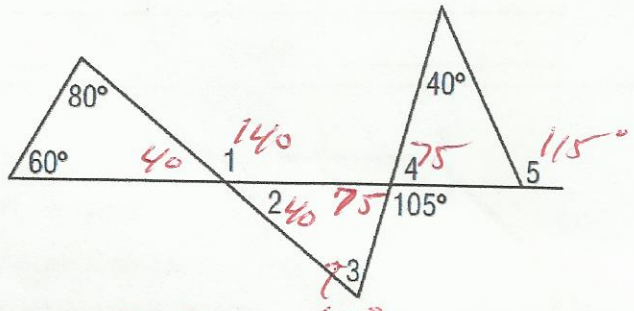
a) m∠1= 140

b) m∠2= 40

c) m∠3= 65

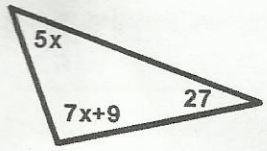
d) m∠4= 75

e) m∠5= 115



Find the value of x.

8) 12



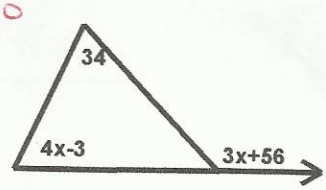
$5x+7x+9+27=180$

$12x+36=180$

$12x=144$

$x=12$

9) 25



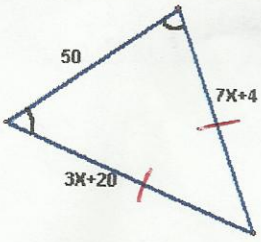
$3x+56=34+4x-3$

$3x+56=4x+31$

$56=x+31$

$x=25$

10) 4



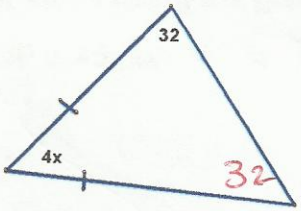
$3x+20=7x+4$

$20=4x+4$

$4x=16$

$x=4$

11) 29



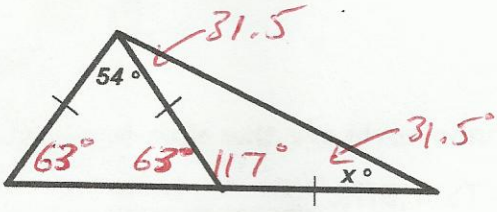
$4x+64=180$

$4x=116$

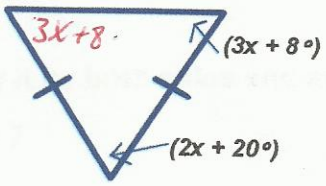
$x=29$

12) 31.5

180 − 54 = 126



13) 18



$3x+8+3x+8+2x+20=180$

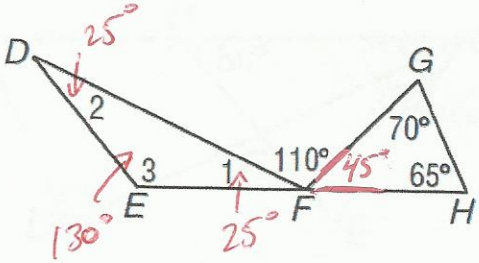
$8x+36=180$

$8x=144$

$x=18$

14) In the figure, $\angle 1 \cong \angle 2$. Find the measures of the numbered angles.

a) m∠1= 25°

b) m∠2= 25°

c) m∠3= 130°