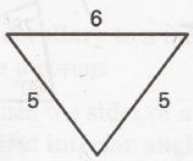
EDUCATIONAL ASSIGNMENT for JOSEPH JOHN WUNDERLICH for 11th grade

This assignment covers the following Educational Objectives (Subjects marked with a "■" are the main subject, and those marked with an "□" are secondary subjects):

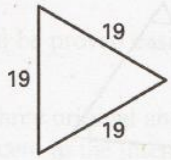
- ■ Geometry

Solve the following problems. Use a pencil.

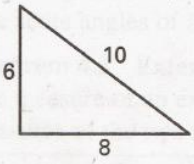
Classify the triangle by its sides.

1. 

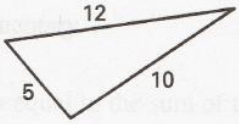
isosceles

2. 

equilateral

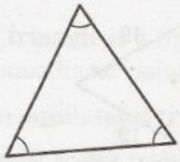
3. 

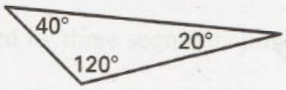
Scalene

4. 

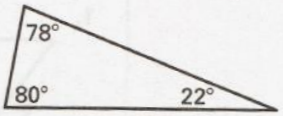
Scalene

Classify the triangle by its angles.

5. 
equiangular

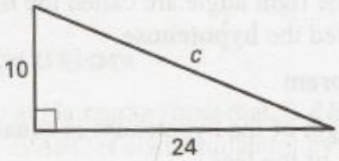
6. 

obtuse

7. 

acute

Find the length of the hypotenuse. Round your answer to the nearest tenth, if necessary.

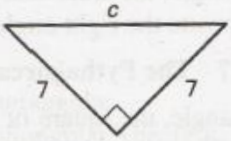
1. 

$10^2 + 24^2 = c^2$

$100 + 576 = c^2$

$676 = c^2$

$26 = c$

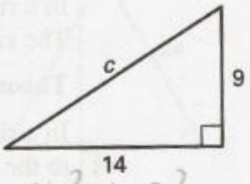
2. 

$7^2 + 7^2 = c^2$

$49 + 49 = c^2$

$98 = c^2$

$9.9 \approx c$

3. 

$14^2 + 9^2 = c^2$

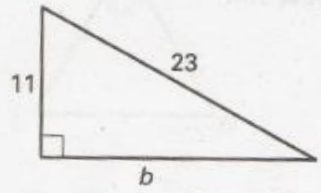
$196 + 81 = c^2$

$277 = c^2$

$16.6 \approx c$

Find the unknown side length. Round your answer to the nearest tenth, if necessary.

4.



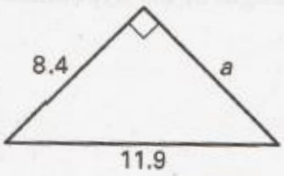
$23^2 = 11^2 + b^2$

$529 = 121 + b^2$

$408 = b^2$

$20.2 \approx b$

5.



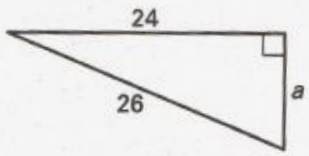
$11.9^2 = 8.4^2 + a^2$

$141.61 = 70.56 + a^2$

$71.05 = a^2$

$8.4 = a$

6.



$26^2 = 24^2 + a^2$

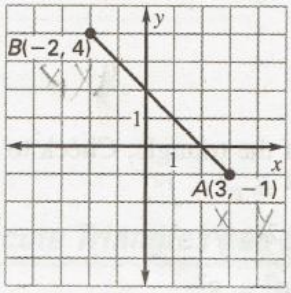
$676 = 576 + a^2$

$100 = a^2$

$10 = a$

Find the distance between the points. Round your answer to the nearest tenth, if necessary.

7.



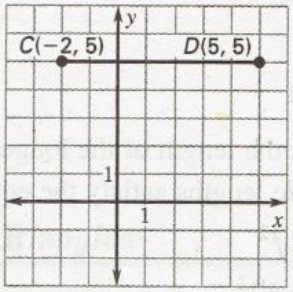
$\sqrt{(-2-3)^2 + (4-(-1))^2}$

$\sqrt{(-5)^2 + (5)^2}$

$\sqrt{25}$

5

8.



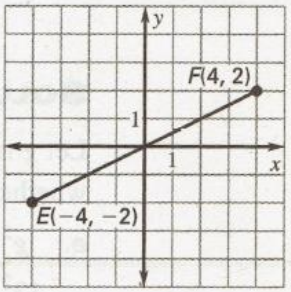
$\sqrt{(5-(-2))^2 + (5-5)^2}$

$\sqrt{7^2 + 0}$

$\sqrt{49}$

7

9.



$\sqrt{(4-(-4))^2 + (2-(-2))^2}$

$\sqrt{8^2 + 4^2}$

$\sqrt{80}$

8.944