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Triangle Classification

Acute

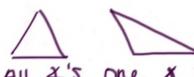
Obtuse



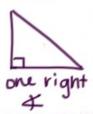
Scalene



Equilateral



obtuse

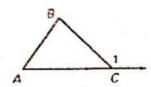




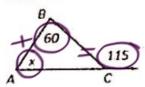




Exterior Angles Theorem

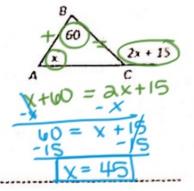


a. Find the value of x.



$$(400 = 115)$$
 $-60 - 60$
 $= 15$

b. Find the value of x.



Triangle Inequalities

The sum of two angles on a triangle must be greater than the third angle.

a. 3, 4, 6

b. 5, 6, 10

c. 5, 6, 11

3+4 >6

yes

yes

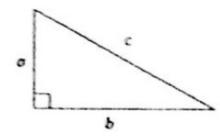
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NO

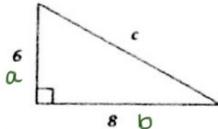
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Pythagorean Theorem

$$c^2 = a^2 + b^2$$



a. Find the value of c



$$6^{2} + 8^{2} = C^{2}$$

$$36 + 64 = C^{2}$$

$$\sqrt{100} = C^{2}$$

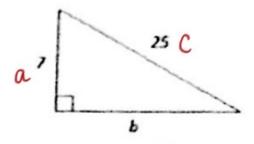
$$C = 10$$

If $c^2 = a^2 + b^2$, then the it is a right triangle.

If
$$c^2 < a^2 + b^2$$
, then the it is a ACUTE triangle.

If $c^2 > a^2 + b^2$, then the it is a \bigcirc bruse triangle.

b. Find the value of b

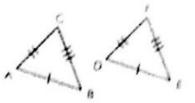


$$7^{a} + b^{2} = 35^{a}$$
 $49 + b^{2} = 635$
 -49
 $\sqrt{b^{2}} = \sqrt{510}$
 $\sqrt{b} = 34$

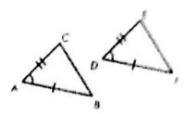


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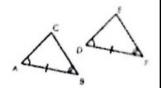
one triangle are
Congruent to three
Sides of another
triangle, then the
triangles are
congruent.



If two sides and the included angle of one triangle are Congruent to two sides and the included angle of another triangle, then the triangles are Congruent.



If two angles and the included side of one triangle are Congruent to two angles and the included side of another triangle, then the triangles are





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