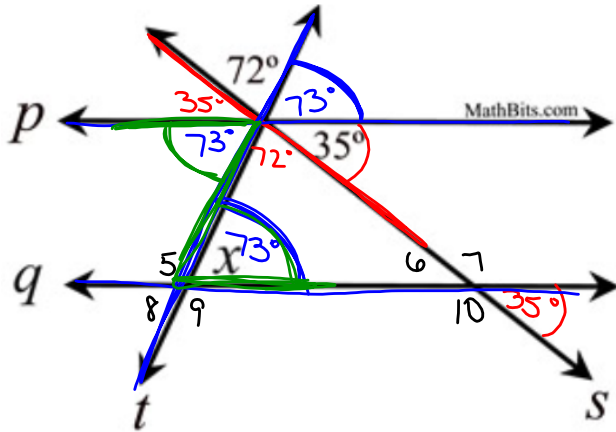


DO NOW

Given straight lines p , q , r and s and angles as marked. Which value of x will make lines p and q parallel?



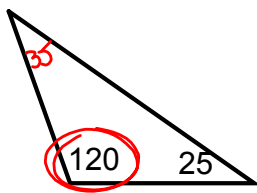
Handwritten work for the problem:

$$\begin{array}{r} 180 \\ - 107 \\ \hline \end{array}$$

$x = 73$

Dec 9-9:35 AM

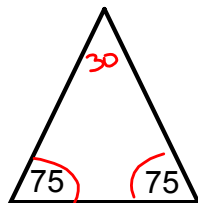
The sum of the angles in a triangle is 180 degrees



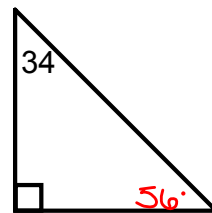
$120 + 25 = 145$

$180 - 145 = 35^\circ$

Scalene Δ
Obtuse Δ



Acute Δ
Isosceles Δ



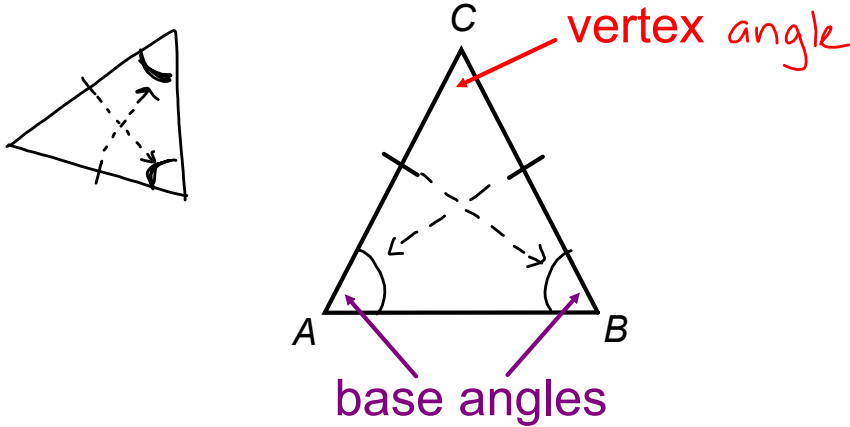
Right Δ
Scalene Δ

Sep 14-12:51 PM

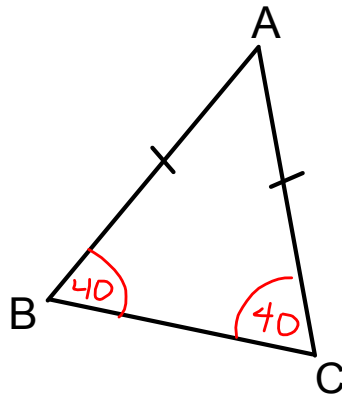
Isosceles Triangle Theorem

If two sides of a triangle are congruent, the angles opposite those sides are congruent

If $\overline{AC} \cong \overline{BC}$, then $\angle A \cong \angle B$



Nov 8-11:00 AM



$$180 - 80 = 100$$

$$\frac{100}{2} = 50$$

1) If $m\angle A = 80$, find $m\angle B$

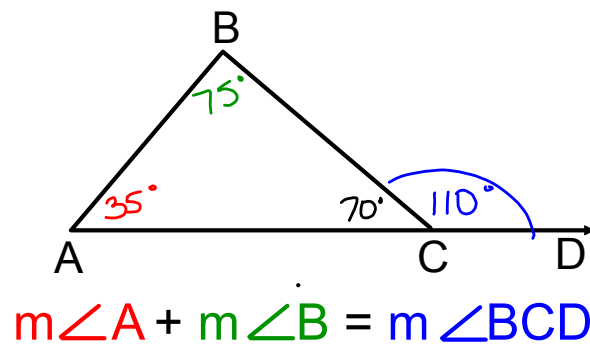
$$m\angle B = 50^\circ$$

2) If $m\angle B = 40$, find $m\angle A$

$$180 - 80 = 100^\circ$$

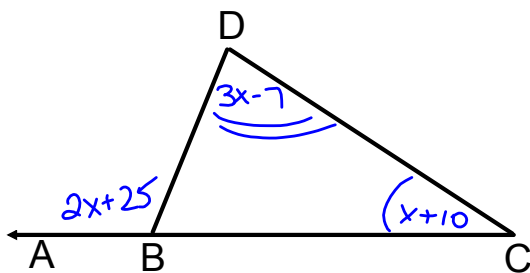
Oct 4-11:48 AM

Exterior Angle of a Triangle Theorem



Oct 1-7:47 AM

If $m\angle C = x + 10$, $m\angle D = 3x - 7$ and $m\angle ABD = 2x + 25$, find the measure of $\angle ABD$



$$3x - 7 + x + 10 = 2x + 25$$

Oct 4-11:54 AM