

Opener

Friday, November 20, 2009
10:39 AM

Find x and y .

$x+6$ $2x-4$ $(3y-1)^\circ$ $(y+35)^\circ$

$$x+6 = 2x-4$$
$$\begin{array}{r} -x \\ \hline 0 \end{array} \quad \begin{array}{r} -x \\ \hline x \end{array}$$
$$6 = x - 4$$
$$\begin{array}{r} +4 \\ \hline 10 = x \end{array} \quad \begin{array}{r} +4 \\ \hline 0 \end{array}$$
$$3y-1 = y+35$$
$$\Rightarrow y = 18$$
$$(3y-1) + 2y+70 = 180$$
$$(y+35) + (y+35)$$

In an isosceles Δ , the base angles are congruent
Isosceles Triangle Theorem (ITT)
