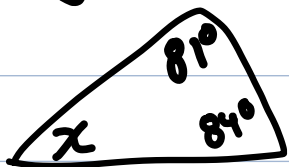


Triangle angle sum

- The sum of the angles of any triangle is 180°



$$1) x + 81 + 84 = 180^\circ$$

$$2) x + 165 = 180^\circ$$

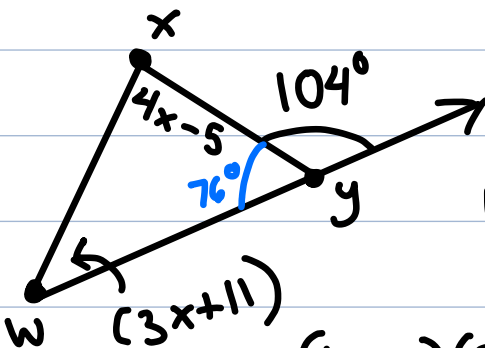
$$\underline{-165 \quad -165}$$

$$\boxed{x = 15^\circ}$$

check your work:

$$81^\circ + 84^\circ + 15^\circ = 180^\circ = 180^\circ \checkmark$$

(* remember, all angles in the triangle have to add up to 180° *)



$$180^\circ - 104^\circ = 76^\circ$$

$$(4x-5)(3x+11) + 76 = 180^\circ$$

$$7x + 82 = 180^\circ$$

$$\underline{-82 \quad -82}$$

$$\frac{7x = 98}{7 \quad 7}$$

$$\boxed{x = 14^\circ}$$

$$4x - 5$$

$$3x + 11$$

$$76^\circ$$

$$4(14) - 5$$

$$3(14) + 11$$

$$56 - 5$$

$$32 + 11$$

$$\boxed{4x = 51^\circ}$$

$$\boxed{4x = 53^\circ}$$

check your work:

$$51 + 53 + 76 = 180^\circ$$

$$104 + 76 = 180^\circ$$

$$180^\circ = 180^\circ \checkmark$$