

$$A + B = 180$$

~~18~~

$$\angle A = 6x - 35^\circ$$

$$\angle B = 3x + 53^\circ$$

$$6x + 18^\circ = 180^\circ$$

$$6x = 180^\circ - 18^\circ$$

$$x = 162^\circ$$

6

$$x = 27^\circ$$

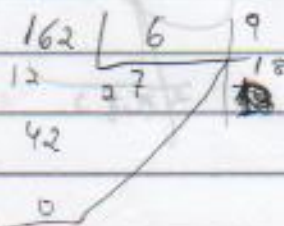
$$3x + 53^\circ$$

$$9x + 18 = 180$$

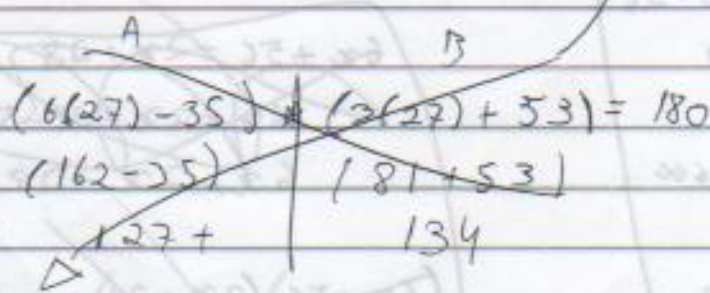
$$x = 162$$

9

$$x = 18^\circ$$



72



$$(6(27) - 35) + (3(27) + 53) = 180$$

$$(162 - 35) + (81 + 53)$$

$$127 + 134$$

$$180^\circ = (6x - 35^\circ) + (3x + 53^\circ)$$

$$180 = 9x + 18$$

$$-18 + 180 = 9x$$

$$x = 182$$

9

$$x = 18$$

A

B

$$(6(18) - 35)$$

$$(108 - 35)$$

$$(73)$$

$$73^\circ$$

$$(3(18) + 53^\circ)$$

$$(54 + 53)$$

$$107^\circ$$

$$180$$