

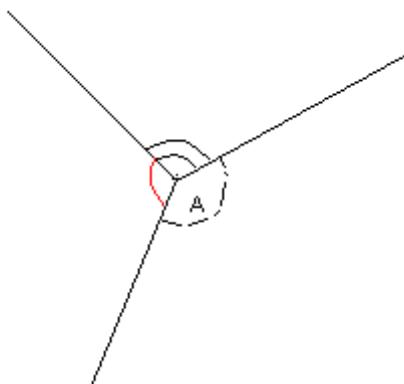
## Answer on Question #46306 – Math - Trigonometry

The value of three angles at a point are  $3y - 45^\circ$ ,  $y + 25^\circ$  and  $y^\circ$ . Find the value of  $y$ .

- 56 $^\circ$
- 86 $^\circ$
- 78 $^\circ$
- 76 $^\circ$

### Solution:

We have three angles at point A (see picture). Sum all these angles is equal  $360^\circ$  (degrees). (Sum all angles at a point is equal  $360^\circ$ ).



Therefore obtain the equation

$$(3y - 45^\circ) + (y + 25^\circ) + y = 360^\circ$$

Solve it

$$5y - 20^\circ = 360^\circ$$

$$5y = 380^\circ$$

$$y = \frac{380^\circ}{5} = 76^\circ$$

**Answer:**  $y = 76^\circ$ .