



10. Let x , y and z be positive real numbers. Suppose x , y and z are the lengths of the sides of a triangle opposite to its angles X , Y and Z , respectively. If

$$\tan \frac{X}{2} + \tan \frac{Z}{2} = \frac{2y}{x+y+z}$$

then which of the following statements is/are TRUE?

(A) $2Y = X + Z$

(B) $Y = X + Z$

(C) $\tan \frac{X}{2} = \frac{x}{y+z}$

(D) $x^2 + z^2 - y^2 = xz$

Answer: B, C

Solution:



$$\tan \frac{X}{2} + \tan \frac{Z}{2} = \frac{2y}{x+y+z}$$

$$\Rightarrow \frac{\Delta}{S(S-x)} + \frac{\Delta}{S(S-z)} = \frac{2y}{2S}$$

$$\Rightarrow \frac{\Delta}{S} \left(\frac{2S - (x+z)}{(S-x)(S-z)} \right) = \frac{y}{S}$$

$$\Rightarrow \frac{\Delta y}{S(S-x)(S-z)} = \frac{y}{S}$$

$$\Rightarrow \Delta^2 = (S-x)^2(S-z)^2$$

$$\Rightarrow S(S-y) = (S-x)(S-z)$$

$$\Rightarrow (x+y+z)(x+z-y) = (y+z-x)(x+y-z)$$

$$\Rightarrow (x+z)^2 - y^2 = y^2 - (z-x)^2$$

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