

$$2600 = XY?$$

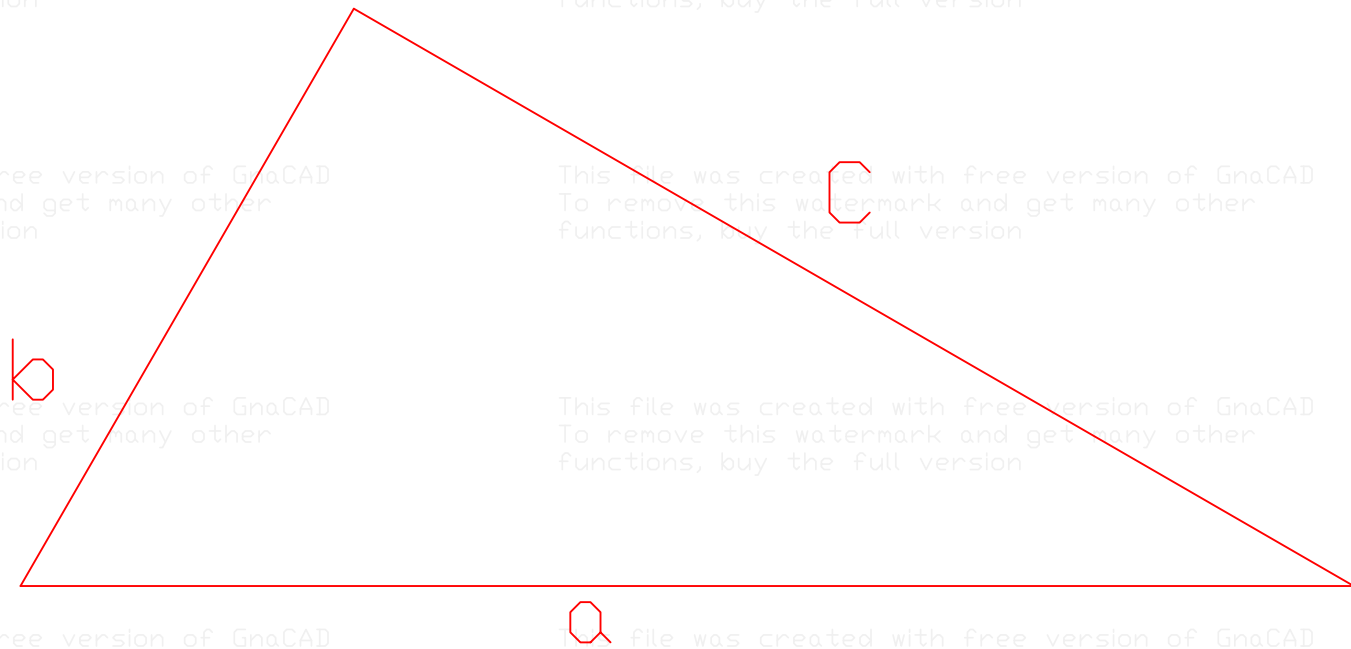
$$\text{Area} = \frac{1}{2} AB \sin \theta$$

$$2600 = \frac{1}{2} * 120 * b * 0.866$$

$$b = \frac{2600 * 2}{120 * 0.866}$$

$$b = 5200 / 103.92$$

$$b = 50$$



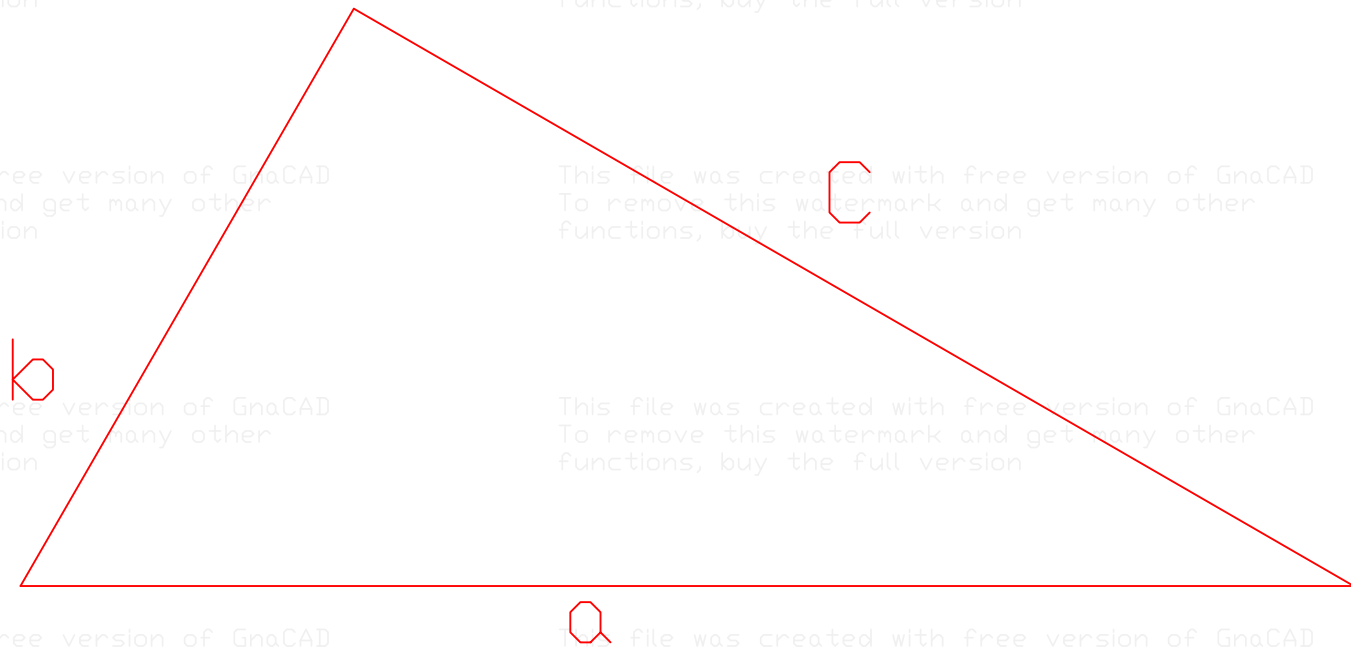
$$\text{Area} = 1/2 * \text{Base} * \text{Height}$$

$$2700 = 1/2 * 120 * H$$

$$H = 2700 * 0.5 / 120$$

$$H = 1350 / 120$$

$$H = 11.25$$



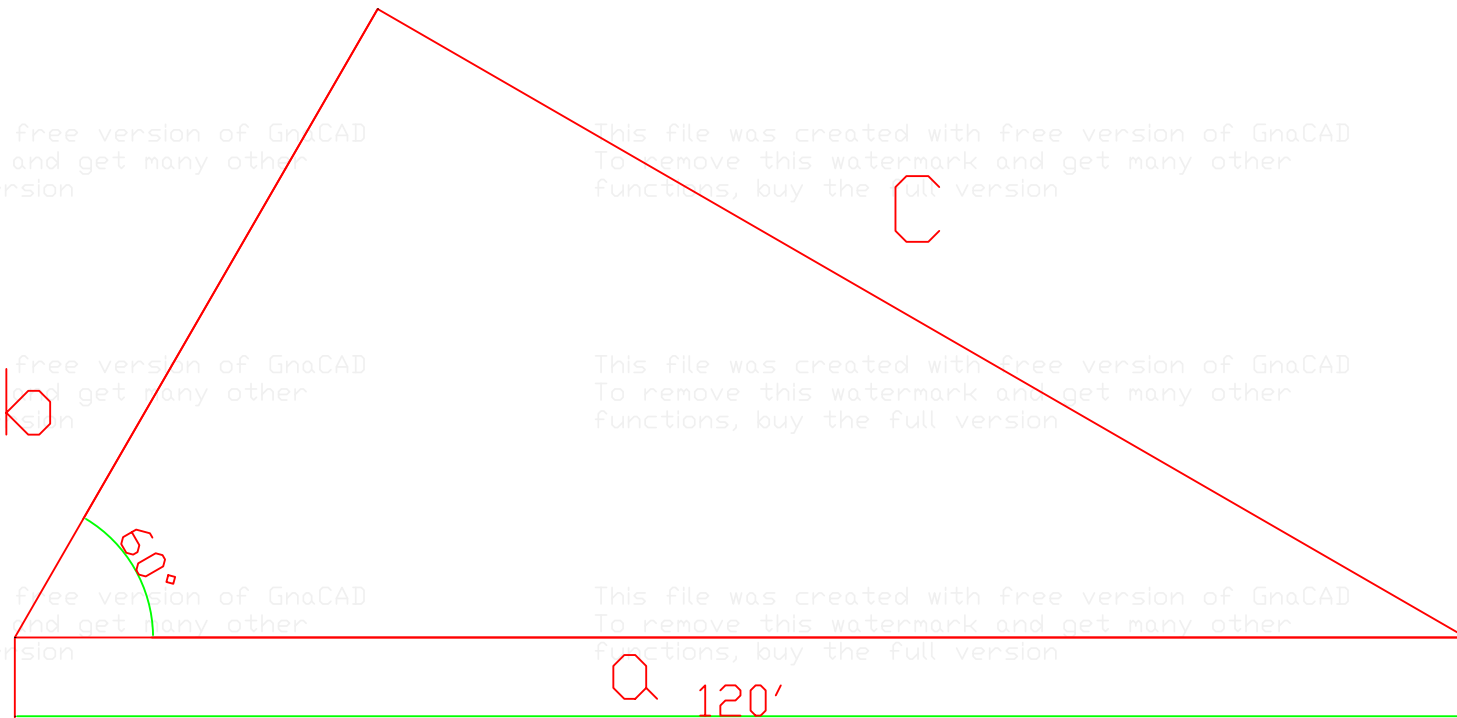
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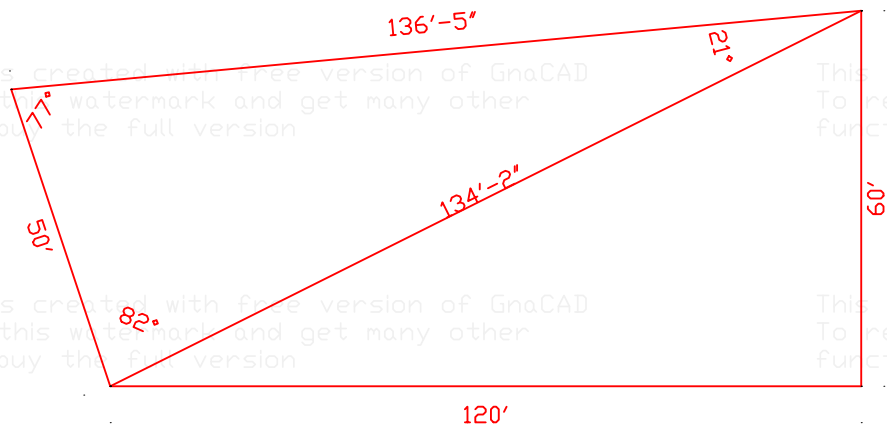


$$A^2 + B^2 - 2 * a * b * \cos 50$$

$$a^2 + b^2 - c^2 / 2ab \cos 50$$

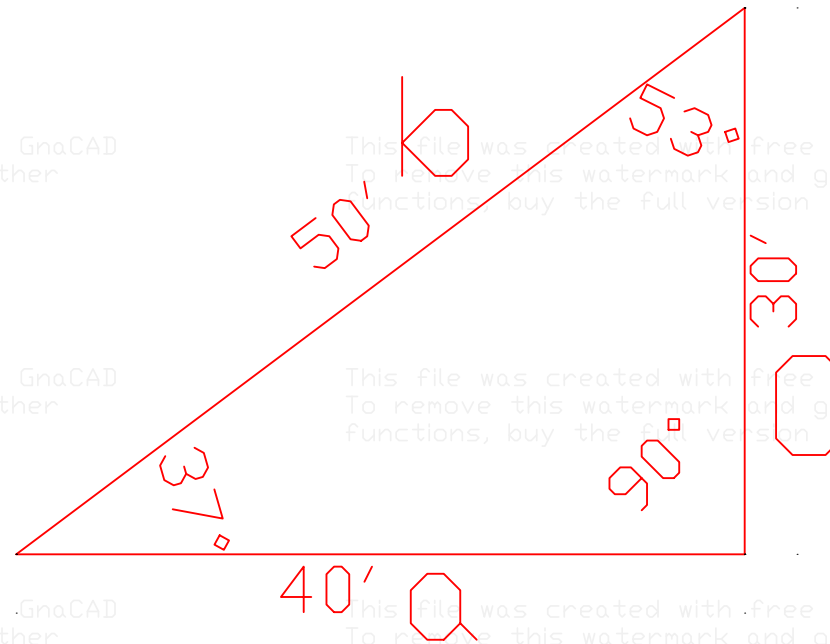
$$a^2 + c^2 - b^2 / 2ac \cos 50$$

$$b^2 + c^2 - a^2 / 2bc \cos 50$$



$$\sin 21 = 0.358 \times 134.17 = 48.08 / \sin 77 = 50$$

$$\sin 21 = 0.9902 \times 134.17 = 132.846 / \sin 77 = 136.359$$



$$\sin 0 = \sin 37 * 50 = 30$$

$\cos 0 = \cos 37^\circ * 50 = 40$

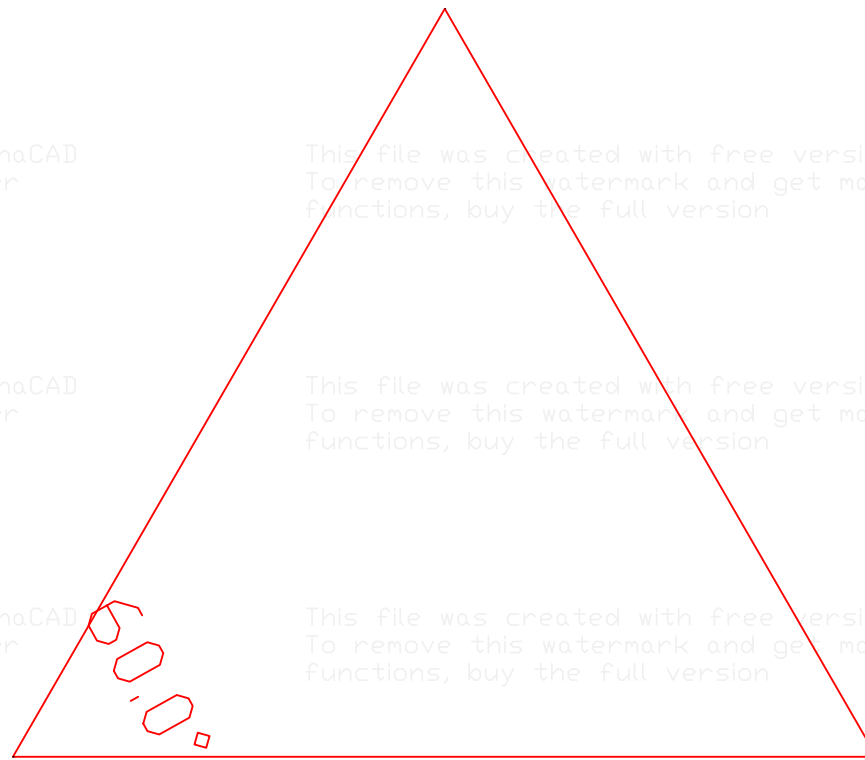
$$\sin \theta = 30 / \sin 37 = 50$$

$$\cos 0 = 40 / \cos 37 = 50$$

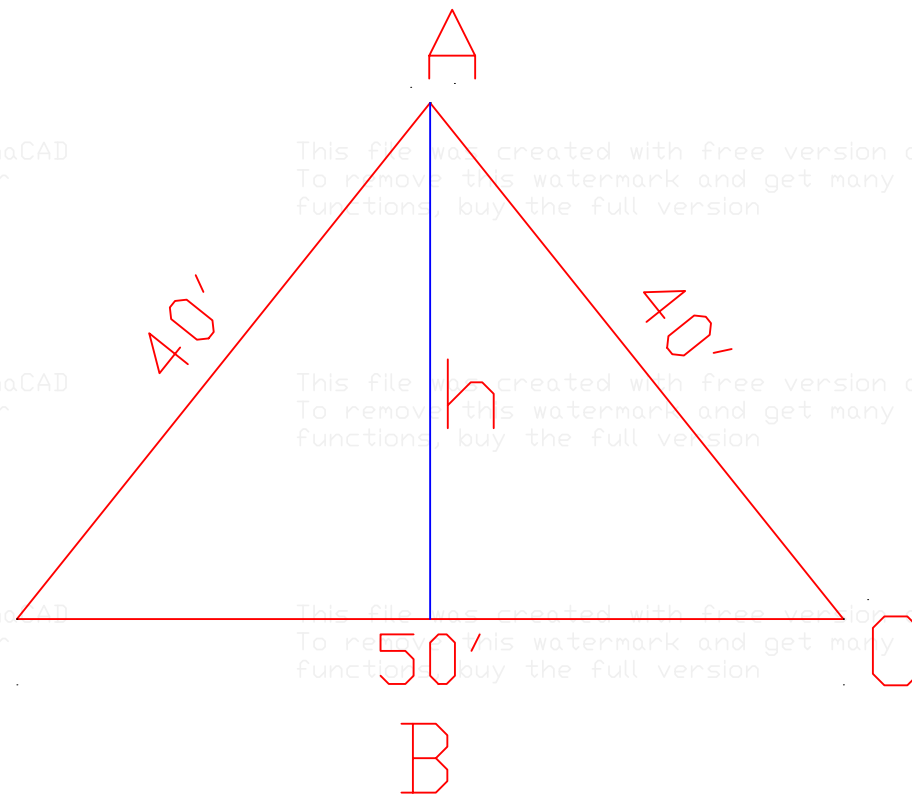
$$\tan 0 - 1 = 30 / 40 = 37$$

$$\tan 0-1=40/37=53$$

$\sin 0 - 1 = 30 / 50 = 37$



$$\begin{aligned} \text{Area} &= 1/2 \cdot a^2 \cdot \sin 0 \\ 2500 &= 1/2 \cdot a^2 \cdot 0.866 \\ a^2 &= 2500 \cdot 2 / 0.866 \\ a^2 &= 5773.672 \\ a &= 75.984 \end{aligned}$$



$$\text{Area} = 1/2 a * h$$

$$780.6247 = 1/2 \quad 50 * h$$

$$h = 780.6247 * 2 / 50$$

$$h = 31.210$$

$$AB^2 + BC^2 = AC^2$$