

200603261029

Name Key

$$A = 25^\circ$$

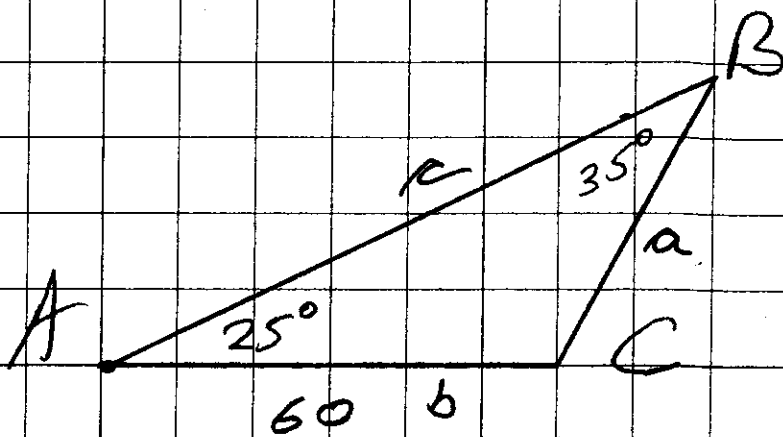
$$B = 35^\circ$$

$$C =$$

$$a =$$

$$b = 60$$

$$c =$$



$$A + B + C = 180^\circ$$

$$25^\circ + 35^\circ + C = 180^\circ$$

$$60^\circ + C = 180^\circ$$

$$C = 180^\circ - 60^\circ$$

$$C = 120^\circ$$

$$\frac{a}{\sin A} = \frac{b}{\sin B}$$

$$\frac{a}{\sin 25^\circ} = \frac{60}{\sin 35^\circ}$$

$$a = 60(\sin 25^\circ) / (\sin 35^\circ)$$

$$a = 60(.40266) / (.5736)$$

$$a = 44.208$$

$$\frac{c}{\sin C} = \frac{b}{\sin B}$$

$$\frac{c}{\sin 120^\circ} = \frac{60}{\sin 35^\circ}$$

$$c = (60)(\sin 120^\circ) / (\sin 35^\circ)$$

$$= (60)(.8660) / (.5736)$$

$$c = 90.592$$