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6.4 Law of cosines & Sines Jolytions

$$c^2 = 11^2 + 21^2 - 2(11)(21) \cos 115$$

 $c = 27.5$

SMONDINGE - AT

SAS - law of cosines

$$\frac{b}{\sin 72} = 103$$

$$\frac{\sin 77}{b = 100.5}$$

ASA -> law of sines

$$\frac{c}{\sin 89} = \frac{51}{\sin 35}$$

 $c = 88.9$

AAS > law of sines

$$a^2 = 46^2 + 24^2 - 2(46)(24)\cos 34$$

$$a = 29.4$$

SAS - cosines

$$0 = \frac{15}{\sin 13} = \frac{15}{\sin 29}$$

$$C = 28.5$$

SSA - ambiguous!! (sines)

$$12^2 = 19^2 + 110^2 - 2(19)(10)\cos A$$

 $M = 39^{\circ}$

SSS -> cosines

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SSA -> ambiguous (sines)

$$42^2 = 31^2 + 21^2 - 2(21)(31)\cos B$$

 $m \le B = 106^{\circ}$

SSS -> cosines

$$17^2 = 12^2 + 12^2 - 2(12)(12)\cos C$$
 $m \le C = 90^{\circ}$

255 - cosines

AAS -> sines

$$y^2 = 18^2 + 14^2 - 2(18)(14) \cos 30$$

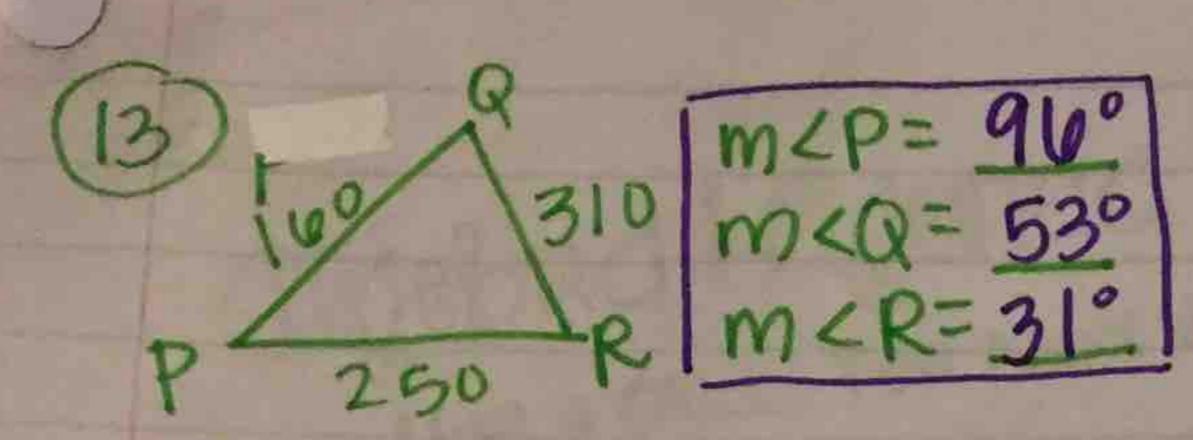
 $\sin P = \sin 30$ $\sin Q = \sin 30$
 18 9 14

SAS -> cosines

ASA-Sines

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 $310^2 = 250^2 + 160^2 - 2(250)(160)\cos P$ $250^2 = 160^2 + 310^2 - 2(160)(310)\cos O$ 180-96-53

 $\frac{27}{9^2 = 43^2 + 27^2 - 2(43)(27) \cos 113}$

 $15^{2}=43^{2}+19^{2}-2(43)(19)\cos P$ $\cos P=1.214$ DNE

 $m < B = 49^{\circ}$ OR 131 = m < B $m < C = 99^{\circ}$ $17^{\circ} = m < C$ C = 13 3.9 = C Sin32 = Sin99 Sin32 = Sin9T C

$$\chi^2 = 452^2 + 572^2 - 2(452)(572)\cos 67.1$$

 $575 + 1$