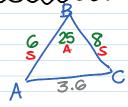
Thursday, May 22, 2014 7:35 AM

pg. 892) 11-19 odd, 20

$$c = 15.3$$

$$c = 58.2$$

Solutions



SAS

$$b^2 = a^2 + c^2 - 2accosB$$

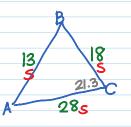
$$b^2 = 8^2 + 6^2 - 2(8)(6)\cos 25^\circ$$

$$6^2 = 12.99$$

$$\frac{\sin C - \sin 25}{3.6}$$

$$SinC = .70$$

 $C = Sin^{-1}(.70)$
 $C = 44.8^{\circ}$



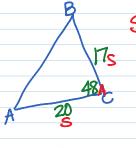
SSS

$$C^2 = q^2 + b^2 - 2qb \cos C$$

 $13^2 = 18^2 + 28^2 - 2(18)(28)\cos C$
 $169 = 1108 - 1008\cos C$
 $-939 = -1008\cos C$
 $-1008 - 1008$

$$\cos^{-1}(.93) = C$$

$$B=180-(21.3+30.2)$$
 $Sin A = .50$
 $B=128.5^{\circ}$ $A=Sin^{-1}(.50)$
 $A=30.2^{\circ}$



SAS

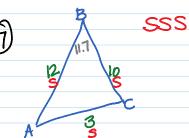
$$C^2 = \Omega^2 + b^2 - 2abcosC$$

 $C^2 = 17^2 + 20^2 - 2(17)(20)\cos 48$
 $C^2 = 233.99$

$$A = \sin^{-1}(.83)$$

 $A = 55.7$





$$b^{2} = q^{2} + C^{2} - 2qCC0SB$$

$$3^{2} = |0^{2} + |2^{2} - 2(|0\rangle)(|2)C0SB$$

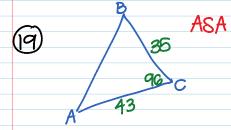
$$9 = 244 - 240C0SB$$

$$-235 = -240C0SB$$

$$-240 - 240$$

$$\frac{\sin A}{10} = \frac{\sin 11.7}{3}$$

$$\sin A = \frac{10\sin 11.7}{3}$$



$$C^2 = a^2 + b^2 - 2ab \cos C$$

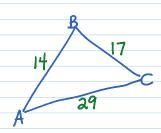
 $C^2 = 43^2 + 35^2 - 2(43)(35)\cos 96$
 $C^2 = 3388.63$
 $C = 58.2$

SinA = Sin96 35 = 58.2 SinA = 355in96 58.2

B=180-(96+36.7) B=47.3°

A=Sin-1(.60) A=36.7°





$$b^{2} = a^{2} + C^{2} - 2accosB$$

 $29^{2} = 17^{2} + 14^{2} - 2(17)(14)cosB$
 $841 = 485 - 476cosB$
 $356 = -476cosB$
 $-.75 = cosB$
 $cos^{-1}(.75) = B$
 $138.4^{\circ} = B$