13.5A HW Friday, May 16, 2014 2:35 PM pg. 866) 12-17, 27,28 (2) A=48° A=37.6° []] B=66° a≈14.3 A 280.9° B=65° 15 B= 38.4° b x 25.5 C % 43.1° ax23.8 b: 24.0 C 2 8.7 a x 15.7 b~ 32.2 a~20.2 $(7) C = 95^{\circ}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{5}$ B a~17.6 6 % 37.8 Gsinc = 5sin55sinc=5sin55 $C = 43^{\circ}$ Solutions $\frac{51048}{19} = \frac{51047}{c}$ <u>SIN85 _ SIN48</u> 12 19 19 $\frac{b\sin 48}{\sin 48} = \frac{19\sin 85}{\sin 48}$ csin48 = 19 sin47 SIN48 SIN48 C % 18.7 b~ 25.5 180-(85+47)=48* $\frac{\sin 37.6}{a} = \frac{\sin 104}{25}$ SINB= SIN104 (3) A 37.6° 16 25 asin104 = 2551037.6 25 SINB = 16 Sin10425 25 sinio4 Sinio4 a = 15.72A = 100 - 604 + 38.39sinB = .6a= 37.6° B=38.39° Ŕ SINGE _ SINBL <u>Sin33 _ SIN81</u> 26 26 a 33 asin81=265in33 bsin81 = 26sin66B = |80 - (8| + 33)SIN81 SIN81 Singl Singl =66° b=24.0 a = 14.3B $\frac{Sin42}{34} = \frac{Sin73}{34}$ $\frac{SIN65}{b} = \frac{SIN73}{34}$ (5) B=65° 34 bsin73=345in65 asin73 = 34sin421 - 245in65 1 A= 24 sin42 T

Ch. 13 Page 1

13. 12. asin73 = 34sin42bsin73=345in65 $b = \frac{34 \sin 66}{\sin 73} = 32.2$ $a = \frac{34 \sin 42}{\sin 73} = 23.8$ $\frac{5in56}{17} = \frac{5inc}{14} \qquad A = 180 - (43.1+56) \\ A = 80.9$ $\frac{\sin 80.9}{a} = \frac{\sin 56}{17}$ G 17 17 sinc = 14 sin 56 $\frac{asin56}{sin56} = \frac{17sin80.9}{sin56}$ sinc = 14sin56a=20.2 17 Sinc = .68 $c = Sin^{-1}(.68)$ C=43.1 \bigcirc C=180-(24+61) =95° $\frac{\sin 24}{a} = \frac{\sin 95}{43}$ $\frac{S[n6]}{b} = \frac{S[n95]}{43}$ $a = \frac{43\sin 24}{\sin 95}$ $b = \frac{43 \text{sinG1}}{\text{Sin95}}$ a=17.6 b=37.8 $\frac{Sin67}{C} = \frac{SIN81}{31}$ B $C = \frac{3151067}{51081} = 28.9$