13.6B HW Thursday, May 22, 2014 2:35 PM pg.892) 3-7, 36-41 (3 Law of cosines (4) Law of sines (5) Law of sines GLAW OF COSINES O Law of sines 38 A=34.3° B=80.7° c=19.3 30 C=64° a= 19.2 c= 18.1 (37) A=45° b= 25.2 c= 15.3 (1) A=81° B=59° OR A=68.2° C=21.8° b=16.2 A= 19.0° B= 121.0° a=41.5 a = 13.7Solutions AAS⇒Law of Sines C = |80 - (44 + 72) $C = G4^{\circ}$ $\frac{\sin 72}{2} = \frac{\sin 44}{14}$ 30 $\frac{\text{SinG4}}{\text{G}} = \frac{\text{Sin44}}{14}$ asin44= 145in72 sin44 Sn44 14 $c \sin 44 = 14 \sin 64$ Sin44 Sin44 a=19.2 C = |8.|31 ASA⇒Lawof Sines 1 △ A = 180 - (98+37) $A = 45^{\circ}$ $\frac{\sin 98}{5} = \frac{\sin 45}{18}$ 18 $\frac{\sin 37}{c} = \frac{\sin 45}{18}$ $b = \frac{1851n98}{5in45}$ c = 18 sin 37b = 25.2SIN45 C= 15.3 $C^{2} = a^{2} + b^{2} - 2abcosC$ $C^{2} = |2^{2} + 2|^{2} - 2(|2)(2|)cos65$ $C^{2} = 372.0$ C = 19.3SAS⇒Law of cosines 38 10 12 19.3 65 B=180-(34.3+65) B=80.7° $\frac{\sin A}{12} = \frac{\sin 66}{19.3}$ 21 SINA=1251065

