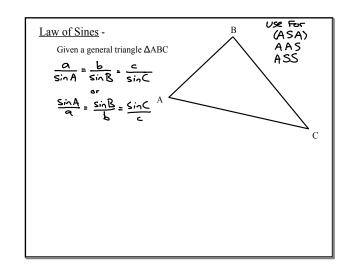
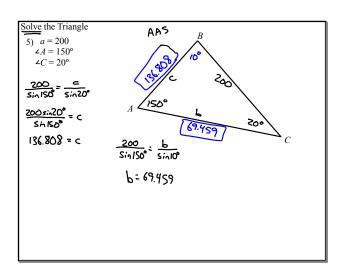
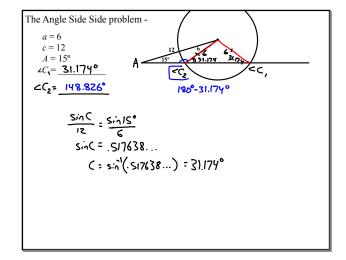
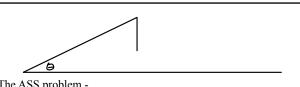
Advanced Math

6-1 Law of Sines





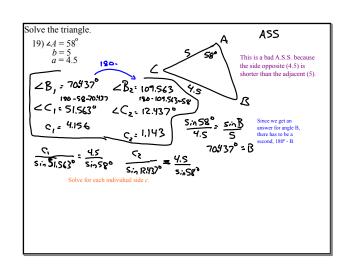




The ASS problem -

If the side opposite is shorter than the side adjacent,

- a) No Solution (calculator error)
- b) One Solution (right angle)
- c) Two Solutions (calculator gives one, you find the other)



Area of a Triangle:

$$A = \frac{1}{2}ab\sin C = \frac{1}{2}bc\sin A = \frac{1}{2}ac\sin B$$

Find the area of the triangle having the indicated sides and angle.

39)
$$C = 120^{\circ}, a = 4, b = 6$$
.
 $A = \frac{1}{2}(4)(6) \sin(120^{\circ})$
 $A = 12(\frac{13}{2})$
 $= 6\sqrt{3} \text{ square units}$

Assignment: pg. 518 2-22 even, 25-36 all, 40,42,44.