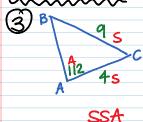
- 3 SSA, one triangle
- (4) AAS, one triangle
- 5 SSA, no triangle

- @ssa, no triangle
- 9 ASA, no triangle
- ⊗ssa, no triangle

- @SSA, 2 triangles
- @SSA, one triangle

Solutions



$$\frac{\sin \beta}{4} = \frac{\sin 112}{9}$$

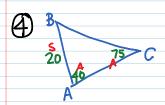
$$\frac{9 \sin \beta}{9} = \frac{4 \sin 112}{9}$$

$$\sin \beta = \frac{4 \sin 112}{9}$$

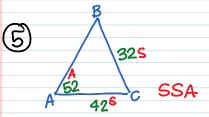
$$\sin \beta = \frac{4 \sin 12}{9}$$

$$\beta = \sin^{-1}.412$$

$$\beta = 24.34$$



AAS ONE TPIANGLE



$$\frac{SINB}{b} = \frac{SINA}{a}$$

$$\frac{SINB}{42} = \frac{SIN52}{32}$$

$$32SINB = 42SIN52$$

$$SINB = \frac{42SIN52}{32}$$

$$SINB = 1.03$$

$$B = SIN^{-1}(1.03)$$

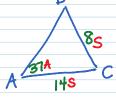
$$SINB = \frac{1}{3}$$

$$SINB = 1.03$$

$$SINB = 1.03$$

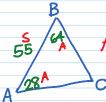
6





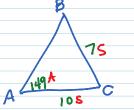
Does not exist





ASA, one triangle

(<u>§</u>)



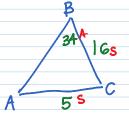
SSA

$$B = 47.37$$

47.37

NO TRIANGLE

9



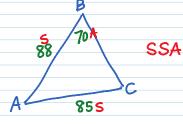
$$\frac{\sin A}{16} = \frac{\sin 34}{5}$$

$$A = \sin^{-1}(1.79)$$

can't dol

NO TRIANGLE

(10)



180-75.93 104.07

104.07 + 70 = 174.07 < 180

TWO TPIANGLES

$$\frac{\sin \beta}{20} = \frac{\sin 48}{28}$$

$$\frac{28 \sin \beta}{28} = \frac{20 \sin 48}{28}$$

$$\frac{28}{28}$$

$$\sin \beta = .53$$

$$\beta = \sin^{-1}(.53)$$

$$\beta = 32.06$$

$$32.06 + 48 = 80.06 < 180$$

