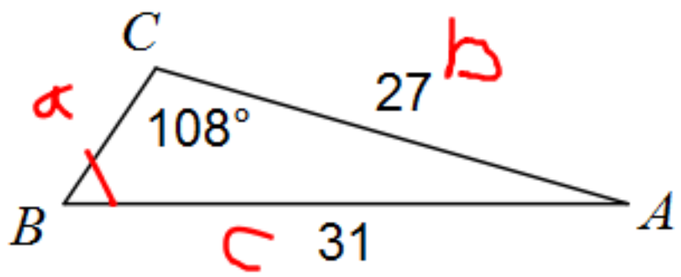
Infinite Algebra 2

Show

Find each measurement indicated. Round your answers to the nearest tenth.

8) Find $m\angle B$



$\angle A =$

$\angle B =$

$\angle C = 108°$

$a =$

$b = 27$

$c = 31$

$\frac{\sin C}{c} = \frac{\sin B}{b}$

$\frac{\sin 108}{31} = \frac{\sin B}{27}$

$31(\sin B) = 25.67$

$\frac{31}{31}$

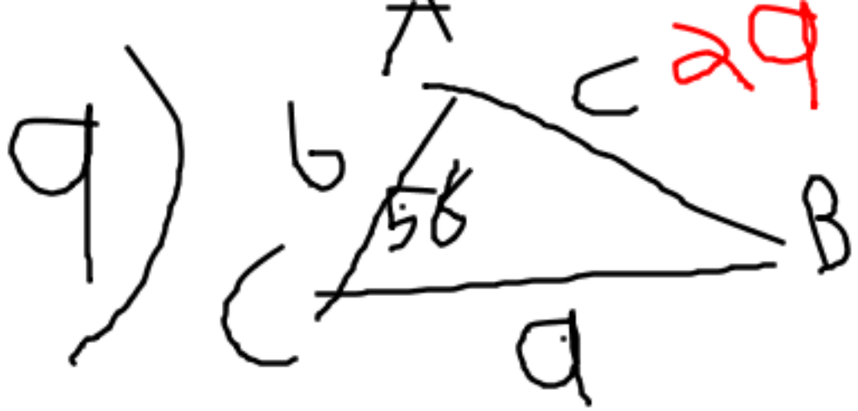
$\sin B^{-1} = 0.828^{-1}$

$\angle B = 56°$

Noel's

Work

9)



$$\frac{\sin C}{c} = \frac{\sin B}{b}$$

$$\frac{\sin 56}{29} = \frac{\sin B}{10}$$

$$\frac{8.46}{29} = \frac{\sin B}{29}$$

$$\sin^{-1}(0.292) = B$$

$$B = 17^{\circ}$$

10)

$$\frac{\sin B}{b} = \frac{\sin A}{a}$$

$$\frac{\sin 38}{11} = \frac{\sin A}{10}$$

$$\frac{6.15}{11} = \frac{\sin A}{11}$$

$$= 0.559$$

$$= 34^{\circ}$$

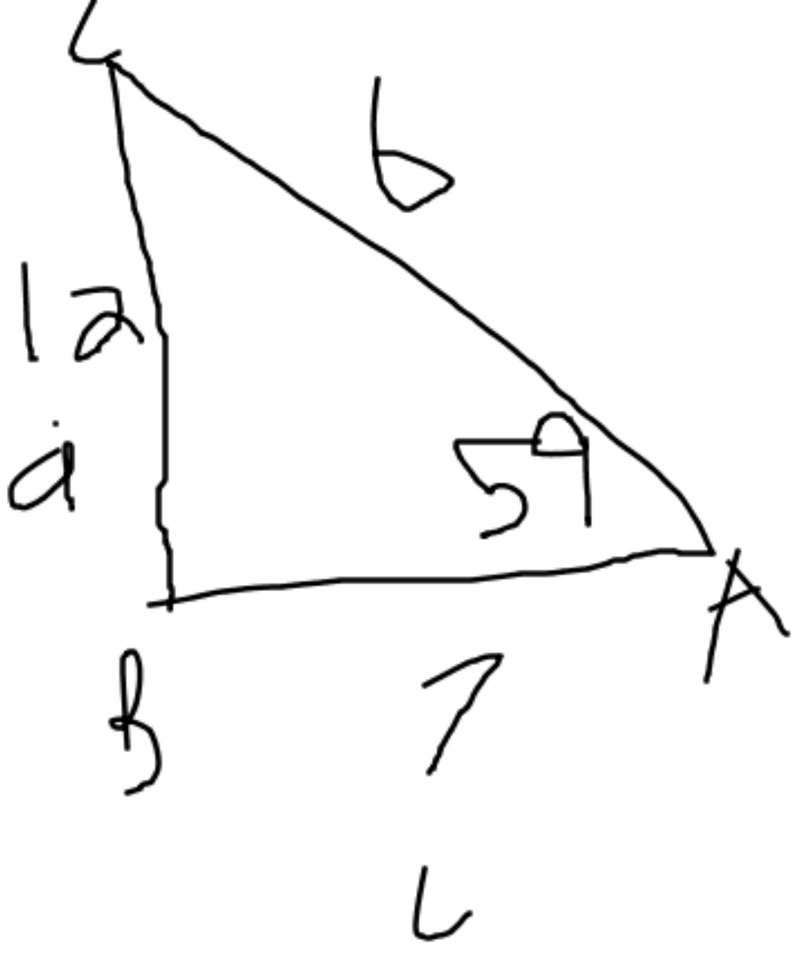
11) A 24 b 102 C a B

-0.325

$= 19$

$$\frac{\sin 102}{24} = \frac{\sin B}{8}$$

$$7.62 = \frac{\sin B\, 24}{24}$$



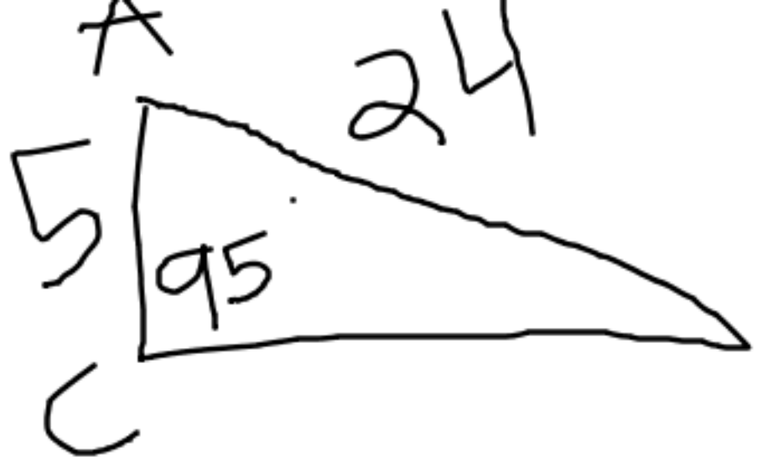
$$\frac{\sin 59}{12} = \frac{\sin C}{7}$$

$$\frac{6.00}{12} = \frac{\sin C\,12}{12}$$

$$= 0.5$$

$$= 30^{\circ}$$

19)



$$\frac{\sin 95}{24} = \frac{\sin B}{5}$$

$$4.98 = \frac{\sin B 24}{24}$$

$$\frac{}{24}$$

$$0.20075$$

$$= 12^{\circ}$$