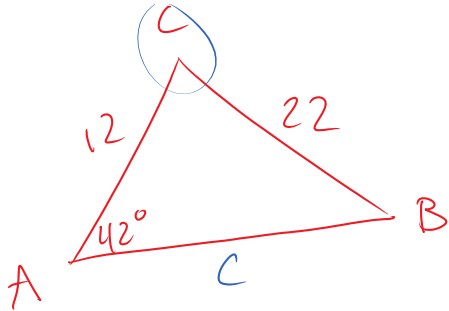


① $\triangle ABC$ $a=22$ $b=12$ $\angle A=42^\circ$

SSA L.O.S.

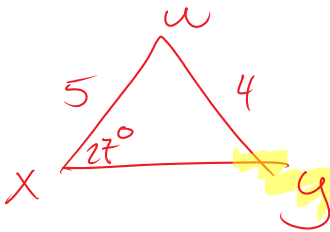


$$22^2 = 12^2 + c^2 - 2(12)(c)(\cos 42)$$

$$22^2 = 144 + c^2 - 2(12)(\cos 42) \cdot c$$

=

② $\triangle xyw$



$x=4$ $y=5$ $\angle x=27^\circ$

$$\frac{\sin 27^\circ}{4} = \frac{\sin y}{5}$$

$\angle y=34.57$

$180 - 34.57 = 145.42$

$\Delta 1$

$\angle w = 118.42$

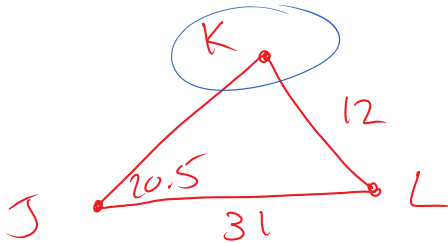
$w = 7.75$

$\Delta 2$

$\angle w = 7.58$

$w = 1.6$

③ $\triangle JKL$



SSA

$j=12$ $k=31$ $\angle J=20.5^\circ$

$$\frac{\sin 20.5}{12} = \frac{\sin K}{31}$$

$\Delta 1$

$\angle K = 64.78^\circ$

$\angle L = 94.72^\circ$

$l = 34.15$

$\Delta 2$

$\angle K = 115.22^\circ$

$\angle L = 44.28^\circ$

$l = 23.92$