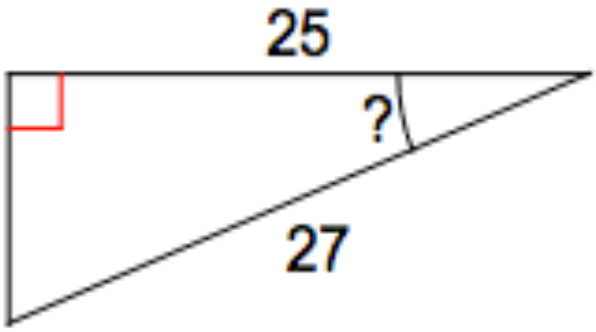
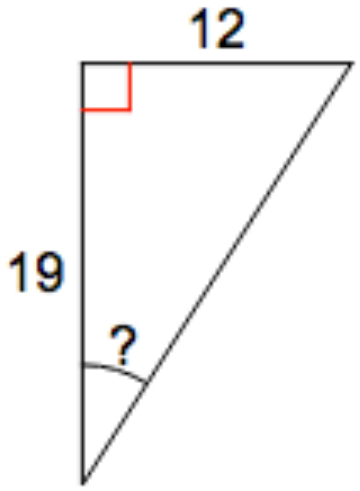
HAT

4/10/17

Triangle Trig Board Review

Find the missing angle. Round to 3 decimal places.





$\sin B = 0.5736$

Find $\csc\theta$ if $\tan\theta = \frac{3}{4}$

$\frac{5}{3}$

Find $\sec\theta$ if $\csc\theta = \frac{7}{5}$

$\frac{7\sqrt{6}}{12}$

Determine the possible number of triangles that can be formed with the given information.

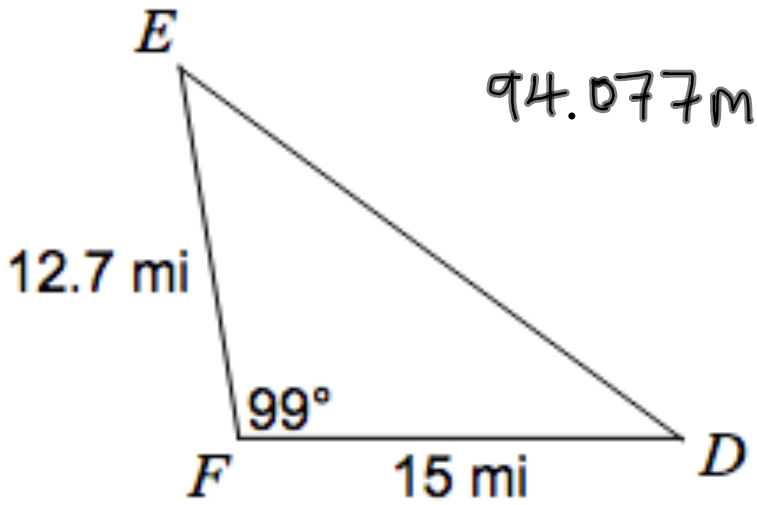
$m\angle C = 62°$, $b = 15$ in, $c = 10$ in

None

$m\angle A = 66°$, $a = 35$ km, $c = 6$ km

One triangle

Find the area of triangle DEF



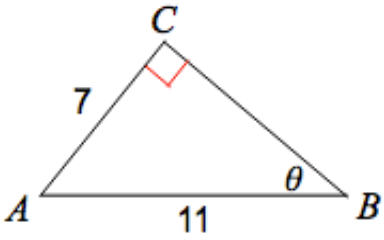
$94.077 mi^2$

Solve triangle ABC

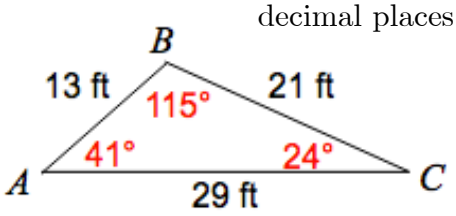
$m\angle B = 20°$, $a = 29$ yd, $b = 24$ yd

$m\angle C = 135.6°$, $m\angle A = 24.4°$, $c = 49.1$ yd
Or $m\angle C = 4.4°$, $m\angle A = 155.6°$, $c = 5.4$ yd

Solve triangle ABC



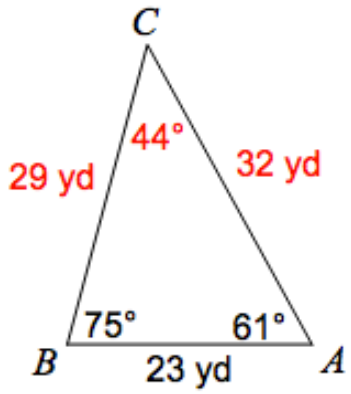
These values are rounded to the nearest degree...tomorrow you will be rounding to 3 decimal places



$\angle A \approx 50.479^\circ$ $a \approx 6\sqrt{2}$

$\angle B \approx 39.521^\circ$

Solve triangle ABC



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