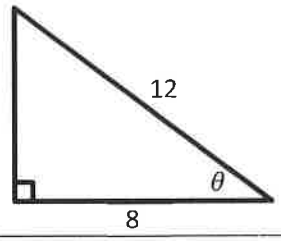
Name: KEY

Trigonometry of Right Angle Triangles – CAH

Solve for the desired angle of the right angle triangle, round to the nearest ~~degree~~ tenth of a degree.

1.

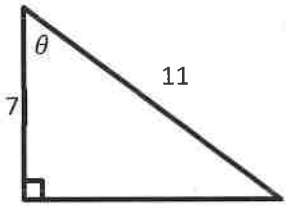


$\cos\theta = \frac{8}{12}$

$\theta = \cos^{-1}\left(\frac{8}{12}\right)$

$\theta = 48.2°$

2.

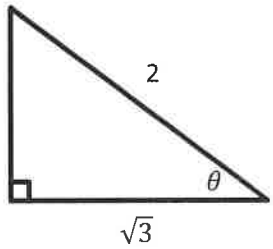


$\cos\theta = \frac{7}{11}$

$\theta = \cos^{-1}\frac{7}{11}$

$\theta = 50.5°$

3.

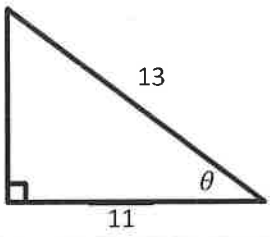


$\cos\theta = \frac{\sqrt{3}}{2}$

$\theta = \cos^{-1}\frac{\sqrt{3}}{2}$

$\theta = 30°$

4.

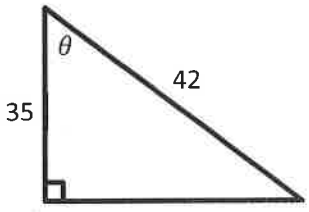


$\cos\theta = \frac{11}{13}$

$\theta = \cos^{-1}\left(\frac{11}{13}\right)$

$\theta = 32.2°$

5.



$\cos\theta = \frac{35}{42}$

$\theta = \cos^{-1}\left(\frac{35}{42}\right)$

$\theta = 33.6°$

Triangles not to scale, trust the math