

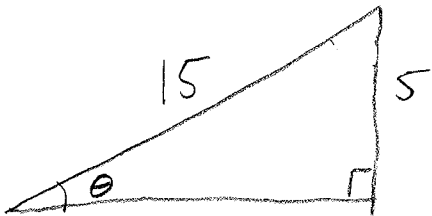
① Find y , when $\sin y = -\frac{\sqrt{3}}{2}$ and $0 \leq y < 2\pi$,
(y should be in radians)

② Convert your answers to degrees.

③ What are the reference angles?

④ Find all values of α between 0 and 2π
such that $\cos^2 \alpha = \frac{3}{4}$

⑤ Find the angle θ for the following ^{right} triangle.

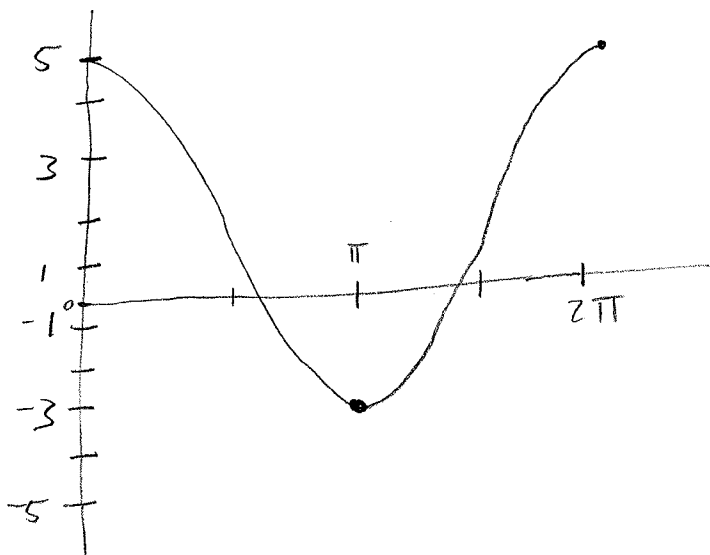


① $y = \sin(\pi x)$ What is the period?

② Find the exact value of $\tan(\sin^{-1}(\frac{y}{x}))$

③ What is the amplitude? $y = -7 \cos x - 2$

④ What is the amplitude?
What is the vertical shift?



Find the exact values in degrees and radians

① (a) $\sin^{-1}(-1)$

(b) $\cos^{-1}\left(-\frac{1}{2}\right)$

(c) $\tan^{-1}(\sqrt{3})$

(d) $\cos^{-1}(1.1)$

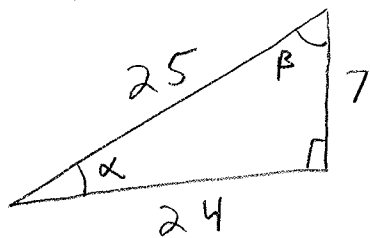
(e) $\cos^{-1}\left(\cos\left(\frac{4\pi}{3}\right)\right)$

(f) $\sin^{-1}\left(\sin\left(\frac{4\pi}{3}\right)\right)$

(g) $\sin^{-1}(1.1)$

② A television camera at ground level is filming the lift-off of a space shuttle at a point 800 m from the launch pad. When the shuttle is 100 m off the ground, what is the angle of elevation from the camera to the shuttle?

①



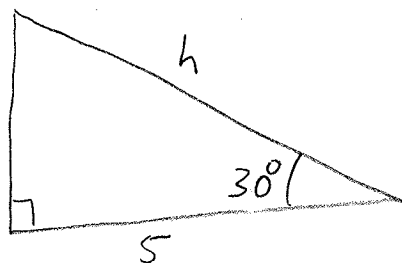
Find

- $\sin \alpha$
- $\csc \alpha$
- $\cot \alpha$

- $\cos \beta$
- $\sec \beta$
- $\tan \beta$

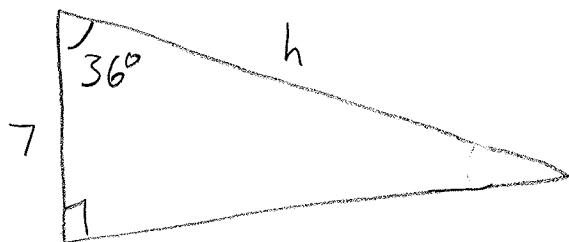
Find the specific angles α and β .

②



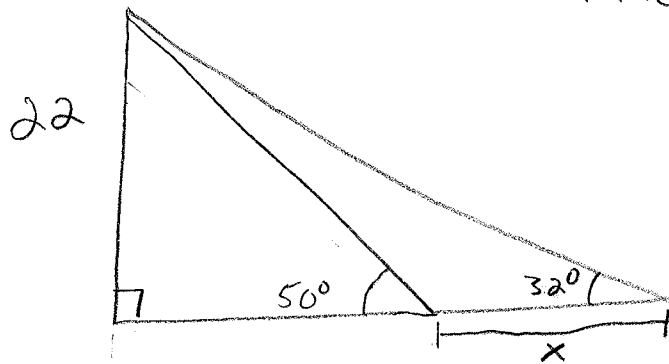
Find h .

③



Find h .

④

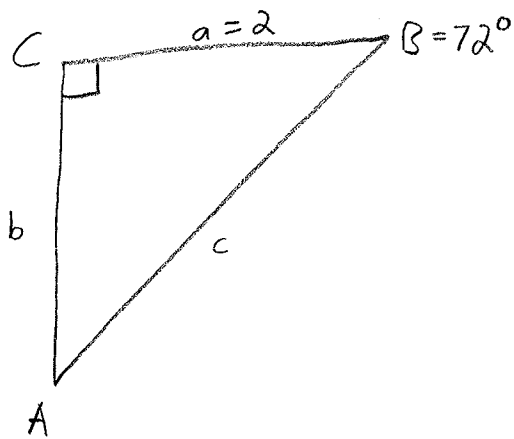


Find x .

① Find a positive and a negative angle coterminal to 280° .

Convert your answers to radians

② Solve the triangle



③ Find the length of the arc formed by a piece of string wrapped a third of the way around a circle with radius 5 feet.

① Convert $\frac{8\pi}{5}$ into degrees

② Find the reference angle for ①.
(You may use the degree answer)

③ Find the exact value of $\sec(\tan^{-1}(\frac{2}{3}))$

④ Find the equation of the following graph.

