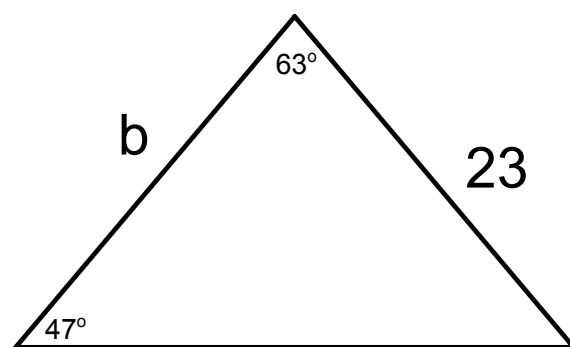


1. Evaluate: $\sec \frac{\pi}{3} =$

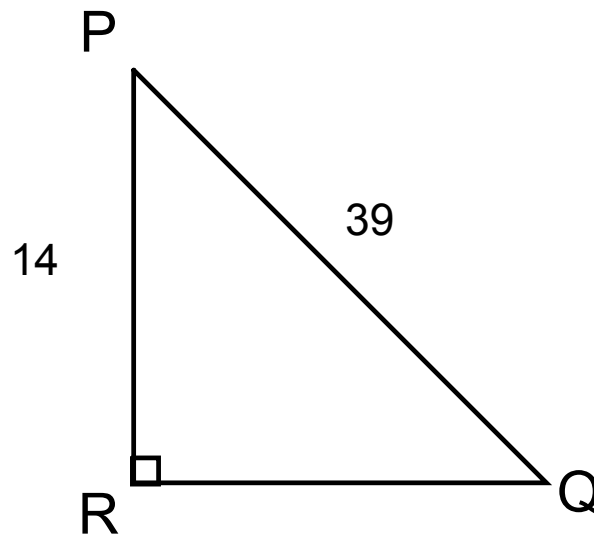
Answer: -293°

2. Find b.



Answer: 70°

3. Find $\angle P$



Answer: 7.64 feet

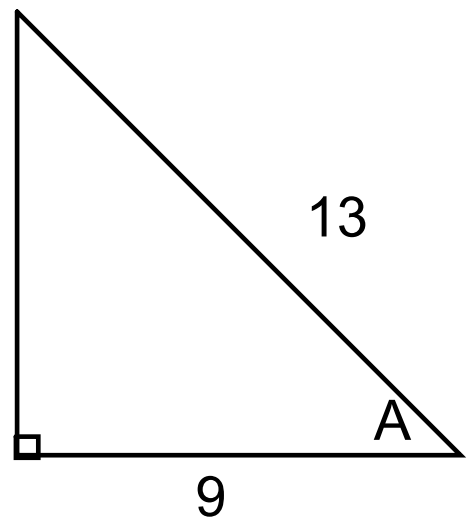
4. Find the nearest negative
coterminal angle to $\frac{\pi}{7}$

Answer: 388°

5. Find the nearest positive coterminal angle to $\frac{4\pi}{3}$

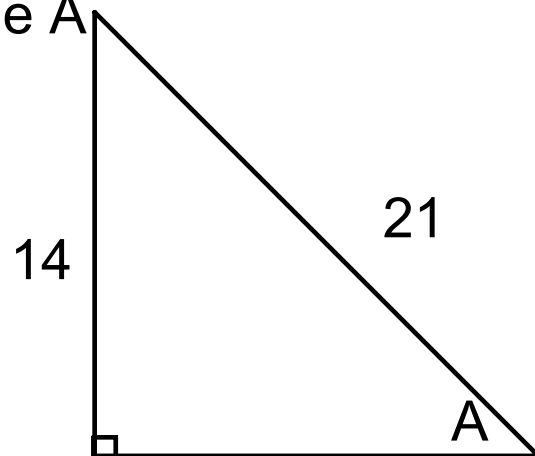
Answer: 1 and 3

6. Find the missing angle A



Answer: 2

7. Find the missing angle A



Answer: $\frac{10\pi}{3}$

8. A flag pole is 15 feet tall. The angle of elevation from a person's feet to the pole is 63° . How far is the person from the base of the pole?

Answer: π

9. If $A=63^\circ$, $a=15$, and $B=54^\circ$ find b

Answer: 144°

10. Evaluate: $\csc\left(\frac{11\pi}{6}\right) =$

Answer: $\frac{-13\pi}{7}$

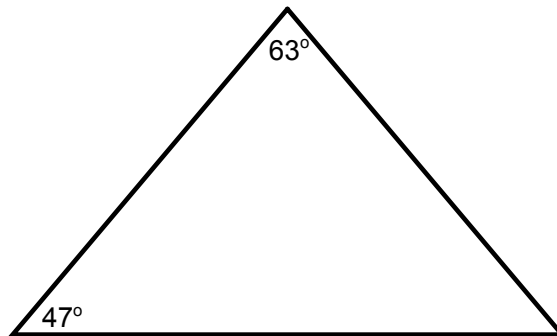
11. In what quadrants are the tangent values positive?

$$\text{Answer: } \frac{\pi}{4}, \frac{7\pi}{4}$$

12. Convert from radians to degrees: $\frac{4\pi}{5}$

$$\text{Answer: } \frac{\sqrt{3}}{2}, -\frac{\sqrt{3}}{2}$$

13. Find the third angle of the triangle



Answer: 46.19°

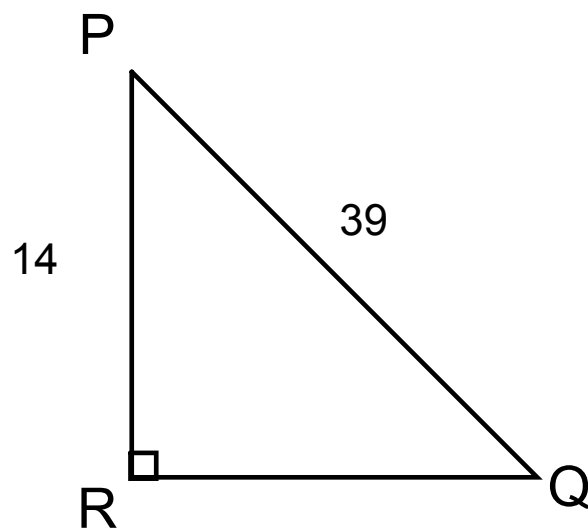
14. Find the exact value: $\sin(\tan^{-1} \sqrt{3})$

Answer: 41.81°

15. What is the amplitude of the following function: $f(x) = -3\sin(4x) + 2$

Answer: 29.55

16. Find $\angle Q$



Answer: 68.96°

17. Evaluate $\cos^{-1} \frac{\sqrt{2}}{2} =$

Answer: -2

18. Find the nearest negative coterminal angle to 67°

Answer: 13.62

19. What is the period of the following function? $f(x) = -3\sin(2x) + 2$

Answer: π

20. Find the nearest positive coterminal angle to 28°

Answer: 21.04°