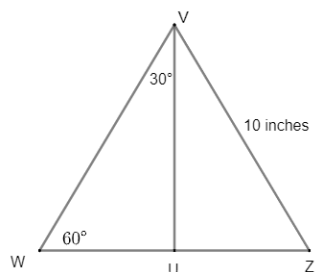


Chapter 8 – Trigonometry on the SAT

Pre Test

1.) In triangle WVZ , $WU = UZ$. What is the length, in inches, of WU ?



- A) 5 B) $5\sqrt{2}$ C) $5\sqrt{3}$ D) 10

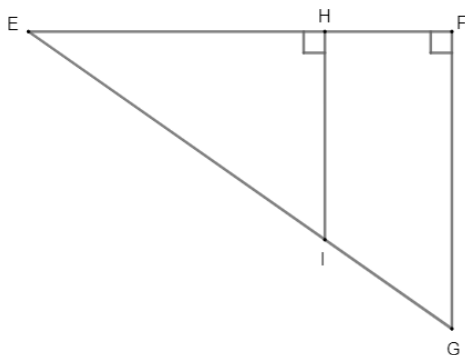
2.) In triangle ABC , with right angle B , $AB = 1$ and $BC = \frac{4}{3}$. What is the value of $\sin C$?

- A) $\frac{3}{5}$ B) $\frac{4}{5}$ C) $\frac{5}{3}$ D) $\frac{4}{3}$

3.) The number of radians in a 540-degree angle can be written as $k\pi$, where k is a constant. What is the value of k ?

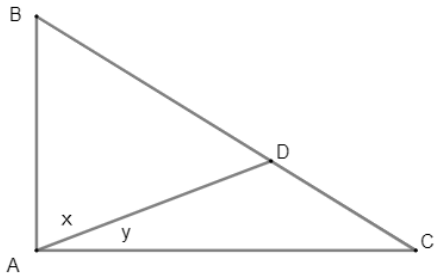
- A) 1.5 B) 2 C) 2.5 D) 3

4.) In the triangle shown below, $EH = 24$, $HF = 12$, and $\cos E = \frac{12}{13}$. What is the length of \overline{FG} ?



- A) 10 B) 13 C) 15 D) 26

5.) In the triangle shown below, $\angle BAC$ is right. What is the value of $\sin(x) - \cos(y)$?



A) -1

B) 0

C) $\sqrt{2}$

D) $\sqrt{3} - \sqrt{2}$

Answer Key

1.) A

2.) A

3.) D

4.) C

5.) B