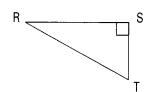
A third example of a trigonometric ratio is the cosine ratio.

In a right triangle, the cosine ratio of an acute angle is defined as

side adjacent to the angle hypotenuse

In \triangle RST, the cosine ratio of \angle R is $\frac{RS}{RT}$.

In \triangle RST, the cosine ratio of \triangle T is $\frac{ST}{RT}$.



Use a calculator to find the cosine of each angle, to three decimal places.

- 1. 23° _____
- **3**. 30° _____
- **5.** 43°

Find $\angle E$, to the nearest degree.

7.
$$\cos E = 0.982$$
 ____ 8. $\cos E = 0.174$ ____

8.
$$\cos E = 0.174$$

9.
$$\cos E = 0.454$$
 __

9.
$$\cos E = 0.454$$
 ____ 10. $\cos E = 0.777$

11.
$$\cos E = 0.999$$
 _

11.
$$\cos E = 0.999$$
 12. $\cos E = 0.009$ **11.**

Find $\angle V$, to the nearest degree.

13.
$$\cos V = \frac{1}{4}$$

13.
$$\cos V = \frac{1}{4}$$
 ____ 14. $\cos V = \frac{7}{8}$ ____

15.
$$\cos V = \frac{2}{3}$$

15.
$$\cos V = \frac{2}{3}$$
 ____ 16. $\cos V = \frac{1}{11}$ ____

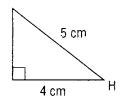
17.
$$\cos V = \frac{14}{15}$$
 ____ 18. $\cos V = \frac{6}{13}$ ____

18.
$$\cos V = \frac{6}{13}$$

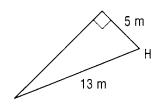
Calculate $\cos H$, $\angle H$, $\cos J$ and $\angle J$. Round each angle measure to the nearest degree.

HINT: Use the Pythagorean Theorem.

19.

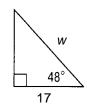


20.

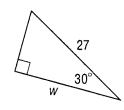


Calculate w, to the nearest tenth

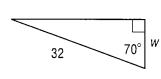
21.



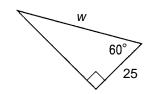
22.



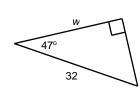
23.



24.



25.



26.

