21

x

15

?

10yd
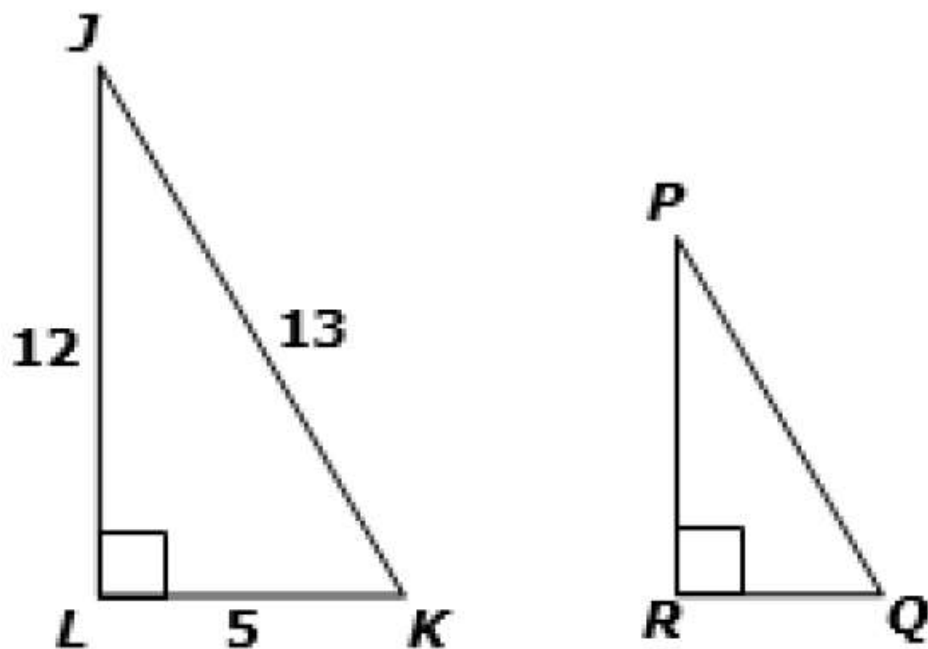
3yd

Triangles with length 7, 18, and 20 a right triangles?

Triangles with length 12, 13, and 5 a right triangles?

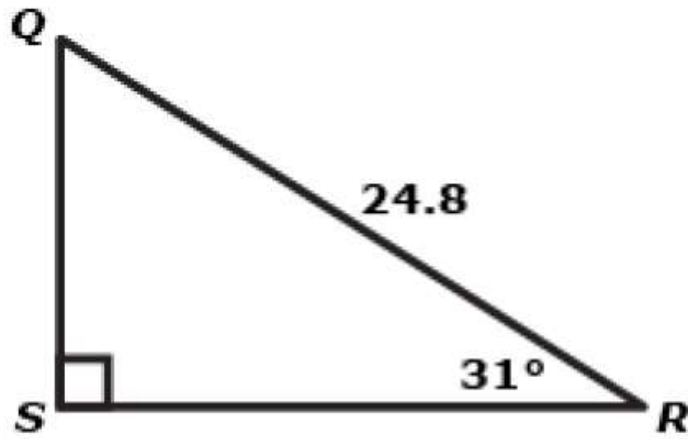**2** Triangle *JKL* is similar to Triangle *PQR*.

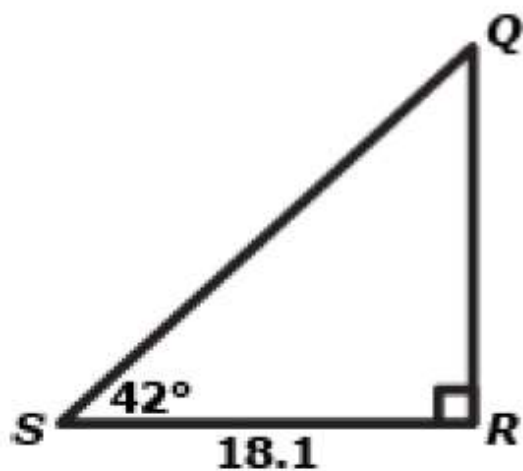Determine the ratio equivalent to cos *Q*. Type the ratio in the box.

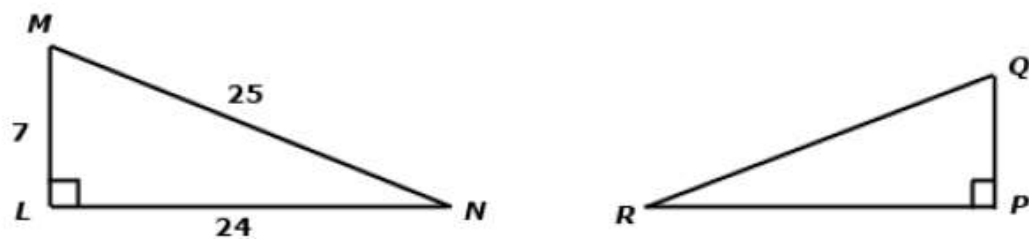**4** Right triangle *QRS* is pictured below.

Which equation gives the correct length of side $\overline{RS}$?

6 Right triangle QRS is pictured below.

Which equation gives the correct value for QR?

9 Triangle LMN is similar to triangle PQR.
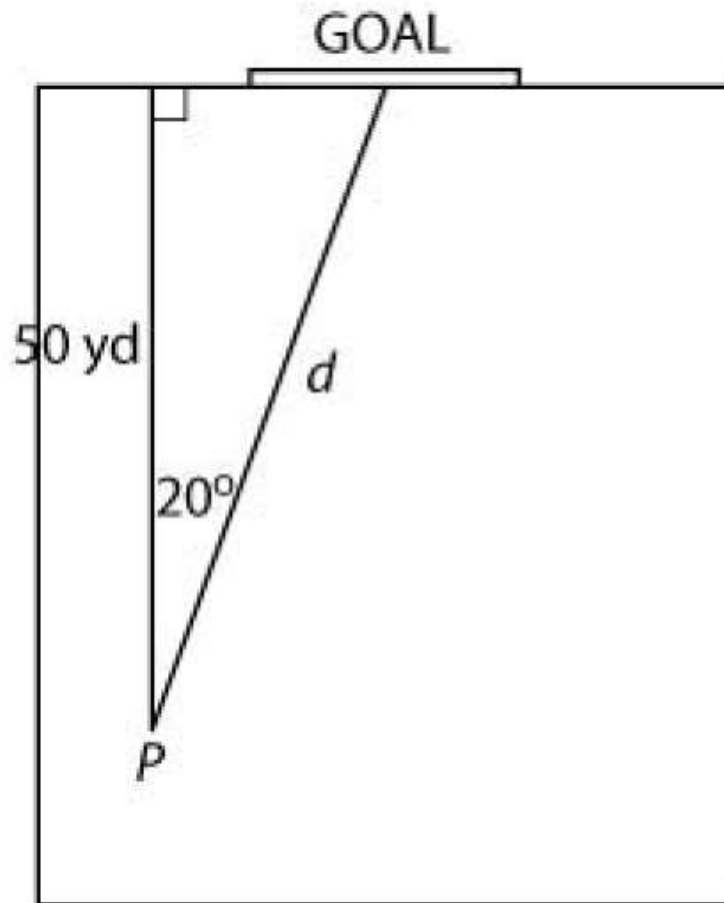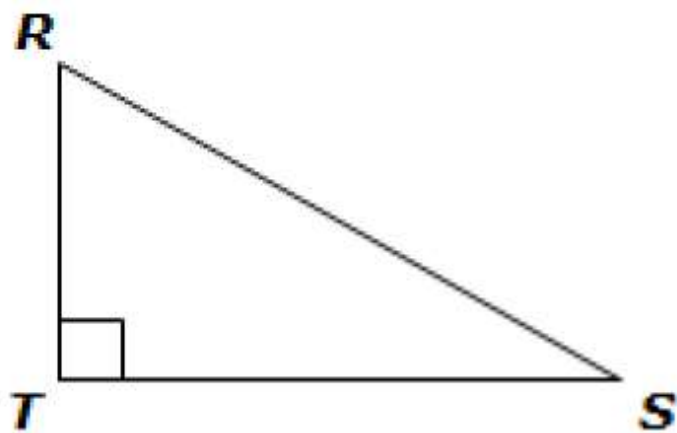

Select ALL angles whose sine equals $\frac{24}{25}$.

10 A soccer coach drew the diagram below for his players. In the diagram, P represents the positio of a player who is 50 yards from the end line.
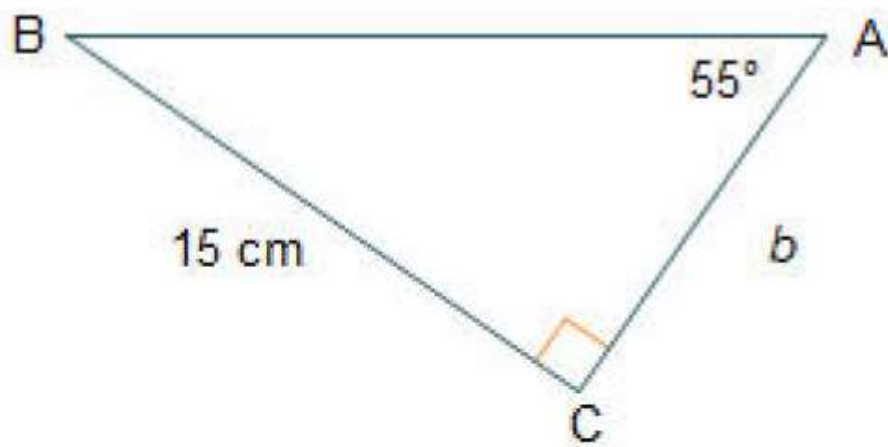
GOAL

50 yd

d

20°

P

14 In $\triangle RST$, which trigonometric function is represented by the ratio $\dfrac{ST}{RS}$?

R

T ⌐ S
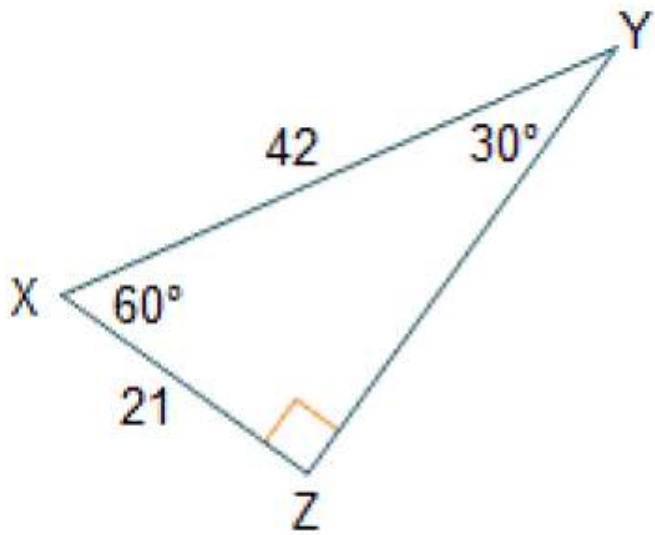
A. $\cos(R)$

B. $\csc(S)$

C. $\sin(R)$

D. $\tan(S)$

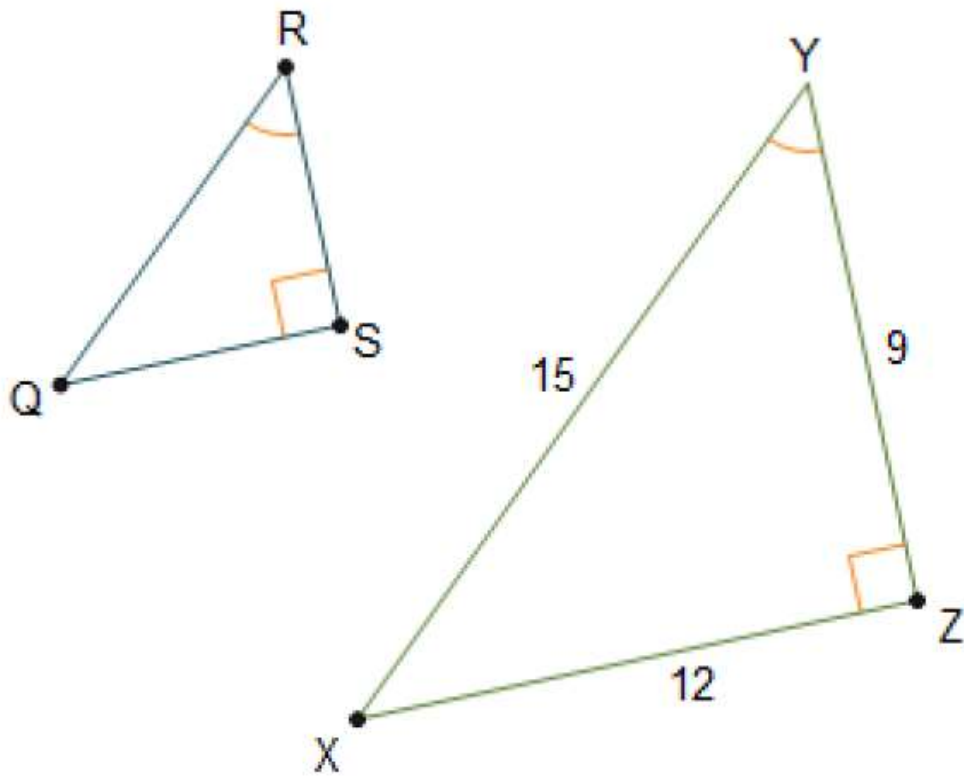**16** What is the length of $\overline{AC}$? Round to the nearest tenth.

A. 3.0 in

B. 9.8 in

C. 10.5 in

D. 12.8 in

17 Given right triangle XYZ, what is the value of tan(60°)?

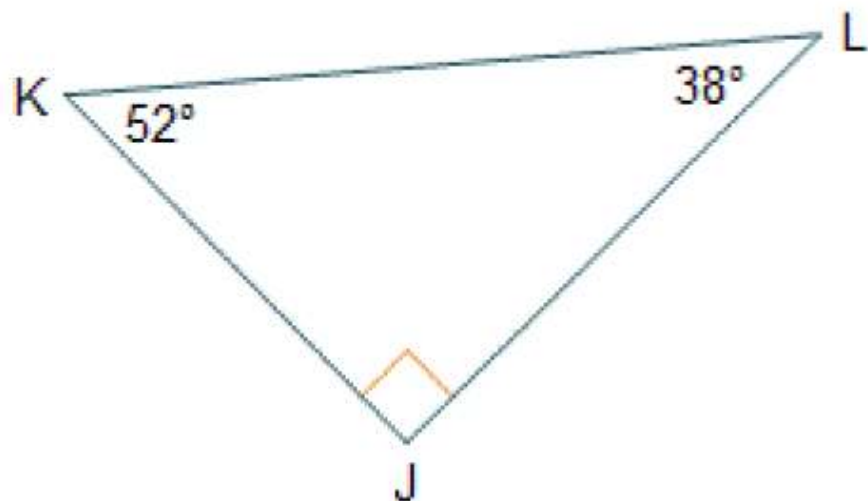A. $\dfrac{1}{2}$

B. $\dfrac{\sqrt{3}}{2}$

C. $\sqrt{3}$

D. $\dfrac{2}{1}$

19 Given △QRS ~ △XYZ, what is the value of sin(Q)?

20 Use the diagram to complete the statement.

Given △JKL, sin(38°) equals

A. cos(38°).
B. cos(52°).
C. tan(38°).
D. tan(52°).