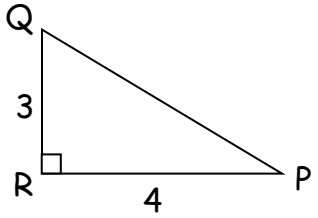
HW#4—Reciprocal Trig Ratios **Name_____Per___**

1) Referring to the diagram, give the value of each trigonometric ratio.



a. $\sin(P) =$ _____

b. $\sin(Q) =$ _____

c. $\cos(P) =$ _____

d. $\tan(P) =$ _____

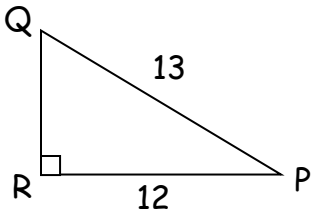
e. $\cot(Q) =$ _____

f. $\sec(P) =$ _____

g. $\csc(P) =$ _____

h. $\tan(Q) =$ _____

2) Give the value of each trigonometric ratio.



a. $\sin(P) =$ _____

b. $\sin(Q) =$ _____

c. $\cos(P) =$ _____

d. $\tan(P) =$ _____

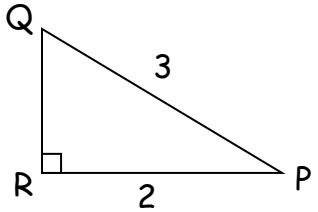
e. $\cot(Q) =$ _____

f. $\sec(P) =$ _____

g. $\csc(P) =$ _____

h. $\tan(Q) =$ _____

3) Give the value of each trigonometric ratio in simplest radical form.



a. $\sin(P) =$ _____

b. $\sin(Q) =$ _____

c. $\cos(P) =$ _____

d. $\tan(P) =$ _____

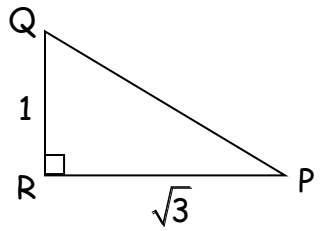
e. $\cot(Q) =$ _____

f. $\sec(P) =$ _____

g. $\csc(P) =$ _____

h. $\tan(Q) =$ _____

4) Referring to the diagram, give the value of each trigonometric ratio.



a. $\sin(P) =$ _____

b. $\sin(Q) =$ _____

c. $\cos(P) =$ _____

d. $\cos(Q) =$ _____

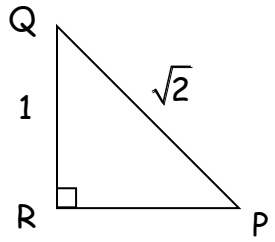
e. $\tan(P) =$ _____

f. $\tan(Q) =$ _____

g. $\csc(P) =$ _____

h. $\cot(Q) =$ _____

5) Referring to the diagram, give the value of each trigonometric ratio.



a. $\sin(P) =$ _____

b. $\sin(Q) =$ _____

c. $\cos(P) =$ _____

d. $\cos(Q) =$ _____

e. $\tan(P) =$ _____

f. $\tan(Q) =$ _____

g. $\csc(P) =$ _____

h. $\cot(Q) =$ _____

6) Draw and label right triangle, ABC, with the following ratios.

a. $\csc(A) = \frac{17}{15}$

b. $\cot(A) = \frac{4}{6}$