Flash Cards: Cosecant, Secant and Cotangent

Directions: Answer the following.

1. Find the cosecant, secant and cotangent of angle A. Triangle has acute angles A and B, hypotenuse with length 12.81, leg adjacent to angle A with length 8 and leg adjacent to angle B with length 10.

2. Find the cosecant, secant and cotangent of angle B. Triangle has acute angles A and B, hypotenuse with length 12.81, leg adjacent to angle A with length 8 and leg adjacent to angle B with length 10.

3. Find the cosecant, secant and cotangent of angle X. Triangle has acute angles X and Y, hypotenuse with length 4, leg adjacent to angle X with length 2 and leg adjacent to angle Y with length 3.46.

4. Find the cosecant, secant and cotangent of angle Y. Triangle has acute angles X and Y, hypotenuse with length 4, leg adjacent to angle X with length 2 and leg adjacent to angle Y with length 3.46.

Answers:

1. Cosecant of A equals the reciprocal of the sine of A equals 12.81 divided by 10, secant of A equals the reciprocal of cosine of A equals 12.81 divided by 8 and cotangent of A equals the reciprocal of tangent of A equals 8 divided by 10.

2. Cosecant of B equals the reciprocal of the sine of B equals 12.81 divided by 8, secant of B equals the reciprocal of cosine of B equals 12.81 divided by 10 and cotangent of B equals the reciprocal of tangent of B equals 10 divided by 8.

3. Cosecant of X equals the reciprocal of the sine of X equals 4 divided by 3.46, secant of X equals the reciprocal of cosine of X equals 4 divided by 2 and cotangent of X equals the reciprocal of tangent of X equals 2 divided by 3.46.

4. Cosecant of Y equals the reciprocal of the sine of Y equals 4 divided by 2, secant of Y equals the reciprocal of cosine of Y equals 4 divided by 3.46 and cotangent of Y equals the reciprocal of tangent of Y equals 3.46 divided by 2.