

Trigonometric Fluctuations

Draw horizontal side of a right-angled triangle through the point $(2, 3)$, which is a distance of $r = \sqrt{13}$ from the origin. From the table trigonometric functions for this angle, calculate the following:

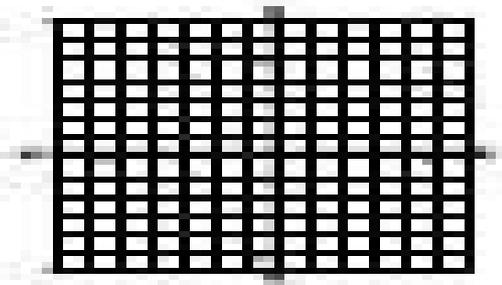
- (i) $\sin \theta =$ _____
- (ii) $\cos \theta =$ _____
- (iii) $\tan \theta =$ _____
- (iv) $\csc \theta =$ _____
- (v) $\sec \theta =$ _____
- (vi) $\cot \theta =$ _____

- (vii) $\sin 2\theta =$ _____
- (viii) $\cos 2\theta =$ _____
- (ix) $\tan 2\theta =$ _____
- (x) $\csc 2\theta =$ _____
- (xi) $\sec 2\theta =$ _____
- (xii) $\cot 2\theta =$ _____



Right-angled triangle in the first quadrant with $r = \sqrt{13}$. From table trigonometric functions calculate:

- Example:** Suppose horizontal side of a right-angled triangle (θ) passes through the point $(-2, -3)$.
- (a) What angle is in standard position?
 - (b) Find coordinates from $(-2, -3)$ to the origin using $r = \sqrt{13}$.

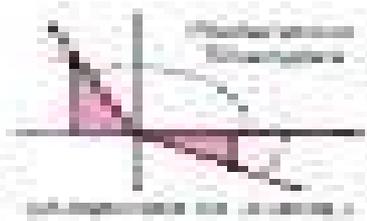


- (c) Evaluate the six trigonometric functions for this angle:
 - (i) $\sin \theta =$ _____
 - (vii) $\sin 2\theta =$ _____
 - (ii) $\cos \theta =$ _____
 - (viii) $\cos 2\theta =$ _____
 - (iii) $\tan \theta =$ _____
 - (ix) $\tan 2\theta =$ _____
 - (iv) $\csc \theta =$ _____
 - (x) $\csc 2\theta =$ _____
 - (v) $\sec \theta =$ _____
 - (xi) $\sec 2\theta =$ _____
 - (vi) $\cot \theta =$ _____
 - (xii) $\cot 2\theta =$ _____

(d) Suppose angle θ measures approximately -222.75° . Use the calculator values for this angle, confirm each trigonometric angle matches the answers provided in part (c). Explain.

NOTE: "Signs in quadrants" can be found by drawing a perpendicular segment from a point on the angle's terminal side to the x-axis. The perpendicular segment is positive and will be the "opposite" side, while distances from the horizontal distance from origin (or x-axis) becomes the "adjacent" side. Also, however, the opposite and adjacent legs can be negative.

| | | |
|---|---|---|
| All segments are positive. | Opposite and adjacent are positive. | All segments are positive. |
| Opposite is negative, adjacent is positive. | Opposite is negative, adjacent is positive. | Opposite is positive, adjacent is negative. |



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