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Algebra 2 coterminal angles worksheet answers

Kuta Software - Infinite Geometry
 Parallel Lines and Transversals
 Identify each pair of angles as corresponding, alternate interior, alternate exterior, or consecutive interior.

Kuta Software - Infinite Pre-Algebra
 Angle Relationships
 Name the relationship: complementary, supplementary, vertical, or adjacent.

Name the relationship: alternate interior, corresponding, or alternate exterior.

Coterminal and Reference Angles
 SOLUTIONS

I. Coterminal Angles
 1) Determine if the following pairs are coterminal:
 a) 25° and 317° → YES $25^\circ - (-40) = 360^\circ$
 b) -2° and 160° → NO $160 - (-2) = 162$
 c) 40° and 280° → YES $280 - (40) = 360^\circ$
 d) -40° and 318° → YES $40^\circ - 318^\circ = -360^\circ$

2) Identify one positive and one negative coterminal angle to -30 degrees.
 $-30 + 360 = 330$ degrees
 $-30 - 360 = -390$ degrees

3) Identify one positive and one negative coterminal angle to $\frac{\pi}{3}$. (use radian measure)
 add 2π : $\frac{7\pi}{3}$ subtract 2π : $-\frac{5\pi}{3}$

4) Write an expression that describes all coterminal angles to 100 degrees.
 $100^\circ + 360^\circ n$ where n is any integer.

II. Reference Angles
 Identify the reference angle for each angle:
 1) 110° → 70 degrees
 2) 42° → 42 degrees
 3) -72° → 72 degrees
 4) 210° → 30 degrees
 5) -150° → 30 degrees
 6) NONE (zero degrees)

III. Coterminal vs Reference Angles
 For each of the following, identify the reference angle and any coterminal angle:
 A) 40° → Reference Angle: 40 degrees, Coterminal Angle: 400 degrees
 B) 210° → Reference Angle: 30 degrees, Coterminal Angle: 570 degrees

1) Tower 15, angle 60°, hypotenuse 30ft. Use 30-60-90. Ladder is 30ft long.

2) River, path 400 yards, angle X. $\sin X = \frac{200}{400}$, $X = \sin^{-1}(\frac{200}{400})$, $X = 30^\circ$. The angle between the path and edge is 30° .

3) Pole 12m, angle X, base 9 meters. $\tan X = \frac{12}{9}$, $X = \tan^{-1}(\frac{12}{9})$, $X \approx 53^\circ$.

Identifying coterminal angles and reference angles is a fundamental skill in trigonometry. Coterminal angles are angles that share the same initial and terminal sides but differ by a multiple of 360° (or 2π radians). Reference angles are the acute angles formed between the terminal side of a given angle and the x-axis. Understanding these concepts is crucial for solving problems involving trigonometric functions, such as finding the sine, cosine, and tangent of an angle. The provided solutions demonstrate how to determine coterminal angles by adding or subtracting 360° and how to find reference angles by considering the quadrant of the angle. For example, the reference angle for 110° is 70° , and the reference angle for -72° is 72° . The solutions also show how to use trigonometric identities and inverse functions to solve for unknown angles in real-world contexts, such as finding the length of a ladder or the angle of elevation of a pole.

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