

Math 11022
Quiz 9 2.5 & 3.1
Name: _____

Trigonometry

Spring 2015

Instructor: Matt Alexander
Quiz Score: _____ /10

- 1.** Find the exact values of $\sin(2u)$, $\cos(2u)$, and $\tan(2u)$ using the double-angle formulas.
Given $\sin(u) = \frac{-3}{5}$ and $\frac{3\pi}{2} < u < 2\pi$. [Hint: Draw a triangle](5pt)

$$\sin(2u) = _____$$

$$\cos(2u) = _____$$

$$\tan(2u) = _____$$

- 2.** Solve the triangle with the given information: $A = 42^\circ$, $a = 22$, & $b = 12$. Explain why there can be only one solution. (5pt)

$$B = _____ \quad C = _____ \quad c = _____$$

Math 11022
Quiz 9 2.5 & 3.1
Name: _____

Trigonometry

Spring 2015

Instructor: Matt Alexander
Quiz Score: _____ /10

- 1.** Find the exact values of $\sin(2u)$, $\cos(2u)$, and $\tan(2u)$ using the double-angle formulas.
Given $\sin(u) = \frac{-3}{5}$ and $\frac{3\pi}{2} < u < 2\pi$. [Hint: Draw a triangle](5pt)

$$\sin(2u) = _____$$

$$\cos(2u) = _____$$

$$\tan(2u) = _____$$

- 2.** Solve the triangle with the given information: $A = 42^\circ$, $a = 22$, & $b = 12$. Explain why there can be only one solution. (5pt)

$$B = _____ \quad C = _____ \quad c = _____$$