

Quiz 9

Name _____

Recall that if you choose numbers m and n with no common factors, one even and one odd, then if $a = m^2 - n^2, b = 2mn, c = m^2 + n^2, a^2 + b^2 = c^2$

1. Let $m = 5, n = 4$. Find a, b and c and show by computing that these are sides of a right triangle.

2. Let $\begin{matrix} m + n = 11 \\ m - n = 1 \end{matrix}$ Find m and n .

3. Using the numbers you found in number 3, find a Pythagorean triple with one side equal 11.