

Name: _____

Date: _____

Instructions: Please complete the following problems. Each answer is associated with a letter that creates a secret phrase. You can find the key on the last page.

Problem 1. Fill in the blank: $\cos(A)\cos(B) - \sin(A)\sin(B) =$ _____

Problem 2. Fill in the blank: $\tan(A + B) =$ _____

Problem 3. Find the exact value: $\sin(60^\circ + 45^\circ)$

Problem 4. Find the exact value: $\cos(57^\circ)\cos(33^\circ) - \sin(57^\circ)\sin(33^\circ)$

Problem 5. Find $\tan(75^\circ)$

Problem 6. Given $\tan(u) = \frac{3}{4}$ in Q3 and $\sin(v) = \frac{5}{13}$ in Q2. Find $\cos(u - v)$

A	1
B	True
C	$2 + \sqrt{3}$
D	$\cos(A)$
E	0
F	False
G	$\cos(A + B)$
H	$\frac{33}{65}$
I	$\cos(B)$
J	$\frac{1}{28}$
K	10
L	100
M	∞
N	$(-\infty, 2)$
O	$\frac{\tan(A) + \tan(B)}{1 - \tan(A)\tan(B)}$
P	$\frac{\tan(A) - \tan(B)}{1 + \tan(A)\tan(B)}$
Q	$\frac{1}{2}$
R	4
S	-18
T	$\frac{\sqrt{6} + \sqrt{2}}{4}$
U	42
V	$\cos(A)$
W	$\sin(B)$
X	$\frac{5}{13}$
Y	$\frac{4}{13}$
Z	$\frac{12}{13}$

What was the phrase you found?
