Name: —————————————————————   Date: ——————————

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

Problem 1. Find the exact value of: $\cos(105°)\sin(75°)$

Problem 2. Find $\sin(32°) - \sin(16°)$

Problem 3. Use the sum-to-product to rewrite the expression: $\sin 10° + \sin 6°$

Problem 4. Evaluate: $\sin(67.5°)\cos(22.5°)$

Problem 5. Find the exact value of $\sin(195°) \cdot \cos(45°)$

Problem 6. True or False: $\sin x + \sin y = \sin(x + y)$

Problem 7. Fill in the blank: $\cos(3x) + \cos(5x) = $ ————————————

A	100
B	$-\frac{1}{4}$
C	$\cos(8x)$
D	$\frac{1}{2} + \frac{\sqrt{2}}{4}$
E	$\frac{-\sqrt{3}+1}{4}$
F	$\sin(16°)$
G	$\cos(90°)$
H	$\frac{1}{2}$
I	True
J	$\frac{1}{28}$
K	10
L	False
L	$2\cos(4x)\cos(x)$
M	$2\cos(8x)\cos(16x)$
N	$2\cos(4x)\sin(x)$
O	$\frac{2}{3}$
P	$\frac{\tan(A)-\tan(B)}{1+\tan(A)\tan(B)}$
Q	$\frac{-1}{2}$
R	$2\sin(8°)\cos(2°)$
S	1
T	$\frac{\sqrt{6}+\sqrt{2}}{4}$
U	$2\sin(8°)\cos(24°)$
V	$\cos(x)$
W	$\sin(x)$
X	$\frac{5}{13}$
Y	$\frac{4}{13}$
Z	$\frac{12}{13}$

What was the name found?