

You must complete this before retaking the MC again. Remember it is all about LEARNING so take your time and learn how to do these skills. If you need help please ask!

NAME: \_\_\_\_\_

Corrective Assignment 11.3

Directions: Write the expression as the sine, cosine or tangent of an angle.

1)  $\sin 27 \cos 24 - \cos 27 \sin 24$

2)  $\frac{\tan 24 + \tan 13}{1 - \tan 24 \tan 13}$

3)  $\cos \frac{\pi}{4} \cos \frac{\pi}{6} + \sin \frac{\pi}{4} \sin \frac{\pi}{6}$

Directions: Use the sum or difference identity to find the exact value.

4)  $\cos 255^\circ$

5)  $\sin 105^\circ$

6)  $\sin \frac{13\pi}{12}$

7)  $\tan \frac{5\pi}{12}$

Directions: Find the exact value.	
<p>8) <math>\tan(\alpha - \beta)</math>  Given: <math>\cos \alpha = \frac{5}{13}</math>, where <math>0 &lt; \alpha &lt; \frac{\pi}{2}</math>  <math>\tan \beta = \frac{3}{4}</math>, where <math>0 &lt; \beta &lt; \frac{\pi}{2}</math></p>	<p>9) <math>\sin(x - y)</math>  Given: <math>\cos x = \frac{7}{25}</math>, where <math>0^\circ &lt; x &lt; 90^\circ</math>  <math>\cos y = -\frac{3}{5}</math>, where <math>90^\circ &lt; y &lt; 180^\circ</math></p>
<p>10) <math>\cos(\alpha + \beta)</math>  Given: <math>\sin \alpha = \frac{4}{5}</math>, where <math>\alpha</math> is in Quadrant I  <math>\tan \beta = \frac{5}{12}</math>, where <math>\beta</math> is in Quadrant III</p>	<p>11) <math>\sin(x + y)</math>  Given: <math>\cos x = \frac{15}{17}</math>, where <math>\frac{3\pi}{2} &lt; x &lt; 2\pi</math>  <math>\tan y = \frac{4}{3}</math>, where <math>\pi &lt; y &lt; \frac{3\pi}{2}</math></p>

ANSWERS TO CORRECTIVE ASSIGNMENT:

Make sure you check all your answers and make sure you KNOW how to do all of them. You could simply copy answers but that's not the point. The point is that you have to learn how to do this so please make sure that for any you don't understand you get help BEFORE taking the Mastery Check again.

- 1)  $\sin 3^\circ$  2)  $\tan 37^\circ$  3)  $\cos \frac{\pi}{12}$  4)  $\frac{-\sqrt{6}+\sqrt{2}}{4}$  5)  $\frac{\sqrt{6}+\sqrt{2}}{4}$  6)  $\frac{\sqrt{2}-\sqrt{6}}{4}$  7)  $\sqrt{3} + 2$  8)  $\frac{33}{56}$  9)  $-\frac{4}{5}$  10)  $-\frac{16}{65}$  11)  $-\frac{36}{85}$