Composite Identities **Name**_____

Mr Murphy

A.M.D.G.

$\cos A = -\frac{7}{25}$ in Quadrant III, $\sin P = -\frac{15}{17}$ in Quadrant IV, $\tan B = -\sqrt{3}$ in Quadrant II

Use the above information to answer problems 1 and 2

1) Find the value of $\cos(A + P)$

2) Find the value of $\sin(P - A)$

3) Find the value of $\sin(A - P)$

4) Find the value of $\cos(A - B)$

5) Find the two possible solutions for $0 \leq x \leq 360°$

a) $\sin 30\cos 4x - \cos 30\sin 4x = \frac{\sqrt{2}}{2}$

b) $\cos 5\theta \cos 15 + \sin 5\theta \sin 15 = -\frac{1}{2}$

c) $\sin 2\theta \cos 10 + \cos 2\theta \sin 10 = -\frac{\sqrt{3}}{2}$