

Name:.....Serial#:.....Sec #:.....

Q.1: Verify the identity $\sin(3x) = 3 \sin(x) - 4 \sin^3(x)$

Q.2: If $\sin(x) = \frac{3}{5}$, x in Quadrant I and $\cos(y) = -\frac{5}{13}$, y in Quadrant II, find the value of $\sin(x - y)$.

Q.3: If $\sin(x) = -\frac{3}{5}$, x in Quadrant IV, find the value of $\sin\left(\frac{x}{2}\right)$.