SKETCHING OF TRIGONOMETRIC CURVE

QUESTION 1

Sketch the graph $y = 5\sin 3x$ for $0 \le x \le 360°$, stating the amplitude and period.

QUESTION 2

Sketch the graph $y = 5\cos 3x$ for $0 \le x \le 240°$, stating the amplitude and period.

QUESTION 3

Sketch the graph of $y = \tan(3x)$ for $0° \le x \le 210°$. State the period of the function.

QUESTION 4

The equation of curve of a curve is $y = 2\sin 3x - 1$ for $0 \le x \le 2\pi$.

(i) Write down the maximum and minimum values of y.

(ii) State the amplitude, the period and the range of the function.

(iii) Hence, sketch the graph of y.

QUESTION 5

Sketch the graph of $y = -5\cos 2x + 3$ for $0 \le x \le 3\pi$.