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## SKETCHING OF TRIGONOMETRIC CURVE

### QUESTION 1

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

### QUESTION 2

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

### QUESTION 3

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

### QUESTION 4

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

- (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  $0 \leq x \leq 3\pi$ .