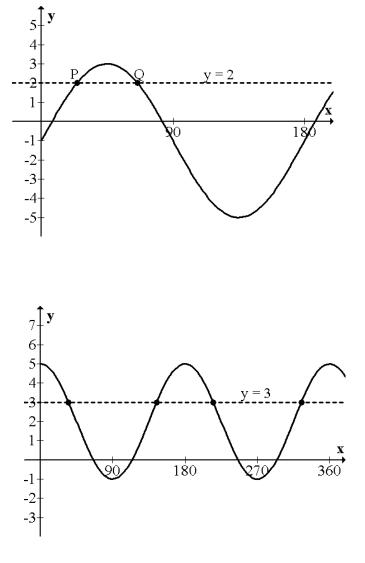
Trigonometric Equations

- 1. Solve the following equations.
 - (a) $2\sin 2x + 1 = 0$ (b) $2\sin^2 x - 1 = 0$ (c) $3\tan^2 x - 1 = 0$ (e) $4\tan 3x + 6 = 9$ (f) $6\tan^2 x - 7\tan x = -2$ (g) $6\tan^2 x - 7\tan x = -2$ (g) $6\sin 2x - 1 = -3$ (g) $6\sin 2x - 1 = -3$ (h) $7\cos 2x - 1$
- (b) $2\cos 2x + \sqrt{3} = 2\sqrt{3}$ $0 \le x \le 2\pi$
- (d) $3\cos^2 x 2\cos x 1 = 0$ $0 \le x \le 360$
- (f) $4 + 5\sin 3x = 3$ $0 \le x \le 180$
- (h) $4\sin^2 x 1 = 2$ $0 \le x \le \pi$
- (j) $6\sin^2 x 5\sin x = 6$ $0 \le x \le 360$
- 2. (a) The diagram shows the graph of y = asin bx + c.Write down the value of a, b and c.
 - (b) Find the coordinates of P and Q, the points of intersection with this curve and the line y = 2.



- 3. (a) The diagram shows the graph of y = acos bx + c.Write down the values of a, b and c.
 - (b) Find the points of intersection of the line y = 3 and this curve.

