

$$\sin (180) = 0$$

$$\cos (0) = 1$$

$$\cos (30) = (\sqrt{3})/2$$

$$\cos (45) = (\sqrt{2})/2$$

$$\cos (60) = 1/2$$

$$\cos (90) = 0$$

$$\cos (120) = -1/2$$

$$\cos (135) = -(\sqrt{2})/2$$

$$\cos (150) = -(\sqrt{3})/2$$

$$\cos (180) = -1$$

$$\cos (0) = 1$$

25. To find the sum or roots/ product of roots

$$y = ax^2 + bx + c$$

$$y = x^2 - 2x - 8$$

$$y = (x + 2)(x - 4)$$

$$\text{Roots: } -2 \quad 4$$

$$\text{Sum of roots} = -2 + 4 = 2 \quad \left\{ \begin{array}{l} \text{Formula} \\ \frac{-b}{a} = \frac{-(-2)}{1} \end{array} \right.$$

$$\text{Product of roots} = -2 \cdot 4 = -8 \quad \left\{ \begin{array}{l} \frac{c}{a} = \frac{-8}{1} \end{array} \right.$$

26. $\sin(bx+c) + d$ or $\cos(bx+c) + d$

Where, a = amplitude, b = period, c = horizontal displacement and d = vertical displacement