# Trigonometry – Questions
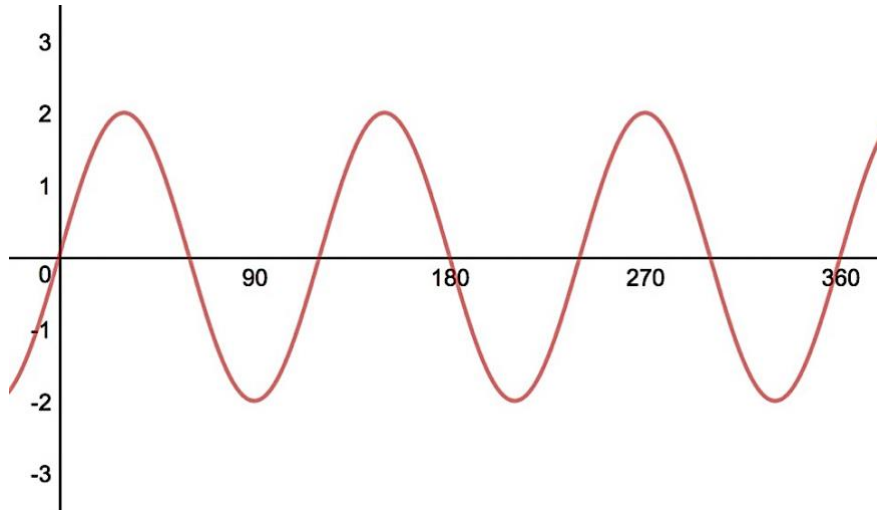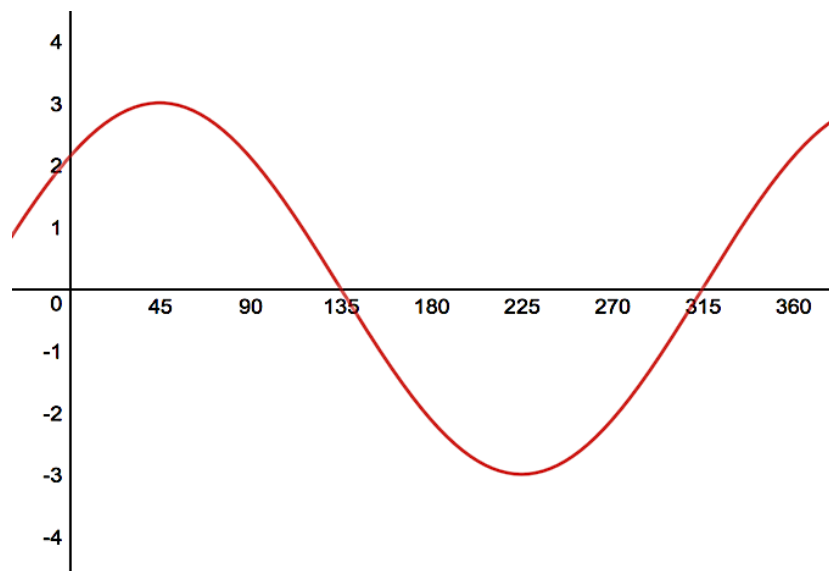
Q1) a) The graph of $y = a\sin bx°$ is shown, what are the values of $a$ and $b$?

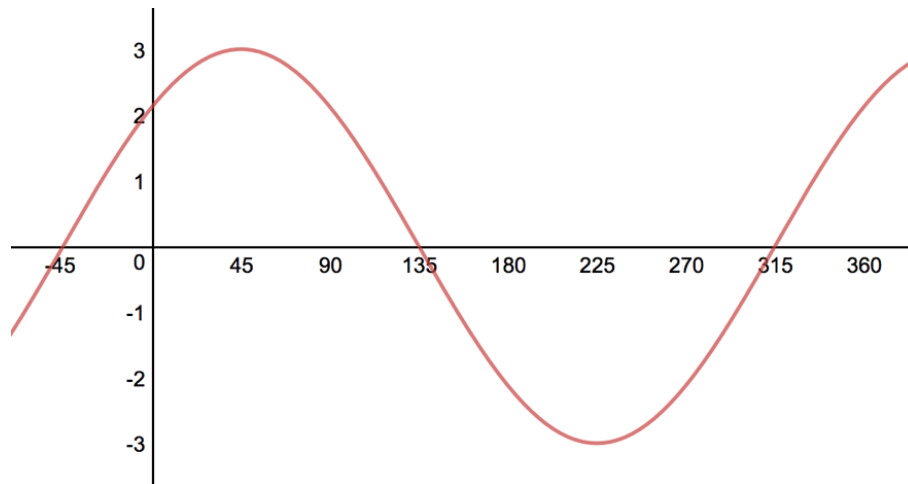

b) The graph of $y = a\cos(x − b)°$ is shown, what are the values of $a$ and $b$?

c) The graph of $y = a\sin(x + b)°$ is shown, what are the values of $a$ and $b$?



Q2) Solve the equation for $0 \leq x \leq 360°$

   a) $3\cos x - 1 = 0$

   b) $2\tan x - 2 = 0$

   c) $5\cos x + 4 = 0$

   d) $\tan x + 1 = 0$

## Trigonometry – Solutions

Q1) a) $a = 2, b = 3$

    b) $a = 3, b = 45$

    c) $a = 3, b = 45$


Q2) a) $x = 70.5°, x = 289.5°$

    b) $x = 45°, x = 225°$

    c) $x = 143°, x = 217°$

    d) $x = 135°, x = 315°$