

Hello world

$$k_{n+1} = n^2 + k_n^2 - k_{n-1} \quad (1)$$

Khan Academy Question 2 Simplify the following for h

$$S = 2\pi r(r + h) \quad (2)$$

$$S/2\pi r = r + h \quad (3)$$

$$h = (S/2\pi r) - r \quad (4)$$

$$S = 250; r = 4; h = (S/2\pi r) - r; h = 5.94718394325 \quad (5)$$

Does the following have an x-intercept?

$$f(x) = x(x + 4) \quad (6)$$

What is the rough y-intercept of

$$[-3..3]f(x) = (x + 3)(1 - x) \Rightarrow 2.8$$

The y-intercept is the value at $f(0)$ The x-intercept is the value where $f(x) = 0$ Periodic is a repeating or looping graph An even graph has $f(x) = f(-x)$ or will look the same reflected over the y-axis

What is the approximate maximum value of the formula:

$$\max(-x^2 + 6x - 1) = 8 \quad (7)$$