Hello world

$$k_{n+1} = n^2 + k_n^2 - k_{n-1} \tag{1}$$

Khan Academy Question 2 Simplify the following for h

$$S = 2\pi r(r + h) \tag{2}$$

$$S/2\pi r = r + h \tag{3}$$

$$h = (S/2\pi r) - r \tag{4}$$

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

Does the following have an x-intercept?

$$f(x) = x(x + 4) \tag{6}$$

What is the rough y-intercept of

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

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:

$$max(-x^2 + 6x - 1) = \ 8 \tag{7}$$

Solve for h

$$A = 1/2(b + c)h \tag{8}$$

$$A/(1/2(b + c)) = h \tag{9}$$

$$2A/(b + c) = h \tag{10}$$

To store a variable and solve, use “st” and “=”.

For example: I want to solve

$$E/c^2$$

I type it exactly, then type my value for E, type stE, type my value for c, and type stc

What is the height of a trapezoid with one base equal to 20 m, the other base equal to 7m, and an area of 135m? It is 10m.

Solve

$$m = E/(c^2)$$

for

$$c = 300,000,000m/s$$

and

$$E = 1.8e14J$$

$$m = 2e - 3$$

The Area of a trapezoid is

$$A = (1/2)(b + c)h$$

solve for b

$$A/(1/2)(h) = b + c$$

$$(A/(1/2)h) - c = b$$

$$b = 2A/h - c$$

When

$$A = 80ft^2$$

$$h = 10ft$$

$$c = 5ft$$

$$b = 11$$