



$$4d. \quad f(x) = \sqrt{x+3}$$

$$d) \quad f(x + \Delta x)$$

$$f(x + \Delta x) = \sqrt{x + \Delta x + 3}$$

$$f(x) = 2x + 1$$

$$f(2) = 2(2) + 1 = 5$$

$$f(2x) = 2(2x) + 1 = 4x + 1$$

$$f(2x+1)$$

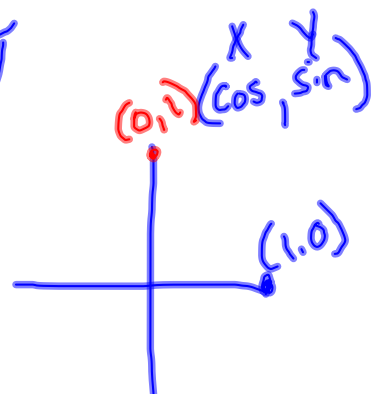
$$f(x + \Delta x) = 2(x + \Delta x) + 1$$

$$58 \quad f(x) = \sin x \quad g(x) = \pi x$$

$$a) \quad f(g(2)) = f(2\pi) = \sin 2\pi = 0$$

$$f) \quad g(f(x)) = \pi \sin x$$

$$b) \quad f(g(\frac{1}{2})) = \sin \frac{\pi}{2} = 1$$



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