

# DIFFERENTIAL & INTEGRAL CALCULUS

by

FELICIANO AND UY

## STEP BY STEP SOLUTIONS

### CHAPTER 1 | LIMITS

#### EXERCISE 1.1

1. If  $f(x) = x^2 - 4x$ , find (a)  $f(-5)$  (b)  $f(y^2 + 1)$  (c)  $f(x + \Delta x)$   
(d)  $f(x + 1) - f(x - 1)$

#### Solution:

(a)  $f(-5)$

$$f(x) = x^2 - 4x$$

$$f(-5) = (-5)^2 - 4(-5)$$

$$f(-5) = 25 + 20$$

$$f(-5) = 45$$

(b)  $f(y^2 + 1)$

$$f(x) = x^2 - 4x$$

$$f(y^2 + 1) = (y^2 + 1)^2 - 4(y^2 + 1)$$

$$f(y^2 + 1) = y^4 + 2y^2 + 1 - 4y^2 - 4$$

$$f(y^2 + 1) = y^4 - 2y^2 - 3$$

(c)  $f(x + \Delta x)$

$$f(x) = x^2 - 4x$$

$$f(x + \Delta x) = (x + \Delta x)^2 - 4(x + \Delta x)$$

$$f(x + \Delta x) = (x + \Delta x)[(x + \Delta x) - 4]$$

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