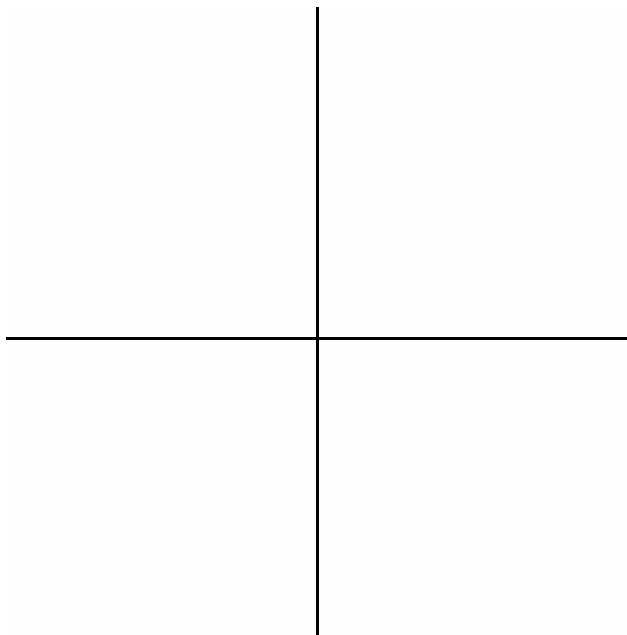


Name:

## QUIZ 49 – MATH GRADE 11

1. (20%) Sketch the functions :

$f(x) = \sqrt{x}$        $g(x) = -\sqrt{x}$        $h(x) = \sqrt{-x}$        $d(x) = -\sqrt{-x}$  on the same graph and indicate which is which.



2. (30%) Given the function  $f(x) = \sqrt{3x+6} - 1$

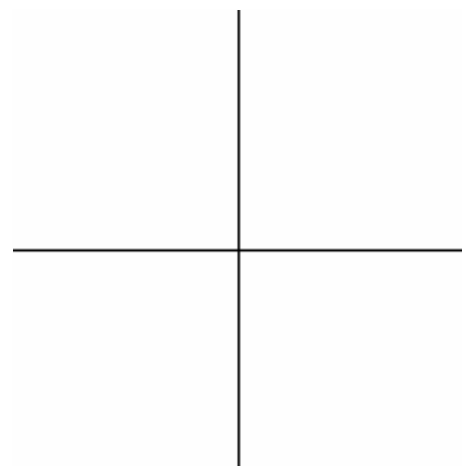
- a. (5%) State the domain of the function: \_\_\_\_\_  
b. (5%) Find all the corresponding end points/limit(s) (if any) **and conclusions:**

c. (5%) y intercept: \_\_\_\_\_

d. (5%) x intercept: \_\_\_\_\_

e. (5%) Sketch the function (including asymptotes and intercepts)

f. (5%) Range: \_\_\_\_\_



3. (25%) Given the function  $f(x) = -\sqrt{-x+4} - 1$

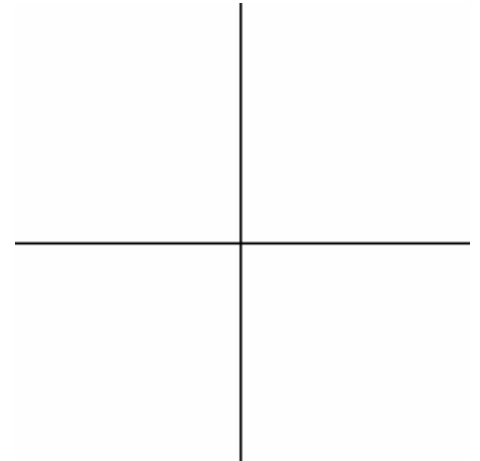
- a. (4%) State the domain of the function: \_\_\_\_\_
- b. (4%) Find all the corresponding end points/limit(s) (if any) **and conclusions:**

c. (3%) y intercept: \_\_\_\_\_

d. (5%) x intercept: \_\_\_\_\_

e. (5%) Sketch the function (including asymptotes and intercepts)

f. (4%) Range: \_\_\_\_\_



4. (25%) Given the function  $f(x) = -3\sqrt{2x+1} - 1$

- a. (4%) State the domain of the function: \_\_\_\_\_
- b. (4%) Find all the corresponding end points/limit(s) (if any) **and conclusions:**

c. (3%) y intercept: \_\_\_\_\_

d. (5%) x intercept: \_\_\_\_\_

e. (5%) Sketch the function (including asymptotes and intercepts)

f. (4%) Range: \_\_\_\_\_

