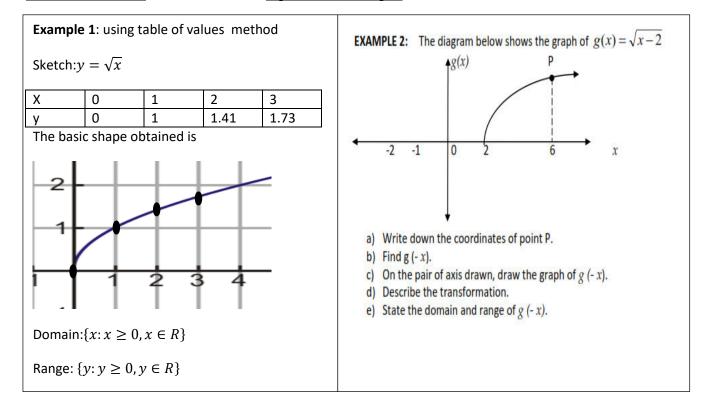
PENANG SANGAM HIGH SCHOOL P.O.BOX 44, RAKIRAKI

LESSON NOTES

Year/Level: 12

Subject: Mathematics

Strand	3 GRAPHS			
Sub Strand	3.1.1 Study and Interpret graphs			
Content	Students should be able to:			
Learning	• Sketch the square roots functions.			
Outcome	• State its domain and range.			
LESSON NOTES	Square Roots Graphs			



Example 2 solutions

a. coordinates of P can be found by substituting 6 in the equation, thus

$$g(6) = \sqrt{6-2}$$

 $=\sqrt{4}$

= 2 therefore (6, 2)

b. g(-x) can be found by substituting -x in g(x).

$$g(x) = \sqrt{x - 2}$$
$$g(-x) = \sqrt{-x - 2}$$

c. Using table of values

Х	-3	-2	-1	0
у	1	0	undefine	undefine

d. Reflection in the y-axis.

e. Domain:{ $x: x \leq -2, x \in R$ }

Range: { $v: v \ge 0, v \in R$ }

Activity

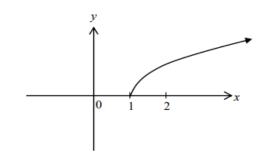
Exercises 34 Page 111 and 112

1, 2, 3

And

2019 FYr12 exam paper

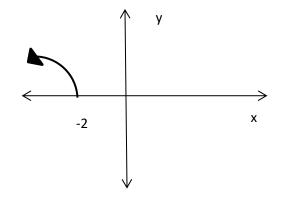
2. The equation of the square root function shown below is



- A. $y = \sqrt{x} + 1$
- B. $y = \sqrt{x + 1}$

C.
$$y = \sqrt{x} - 1$$

D. $y = \sqrt{x - 1}$



(1 mark)

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