NAME: Solutions

# Quiz 5

Dawson College

Applied Math (201-943-DW)

Date: Oct 27th 2011 Instructor: E. Richer

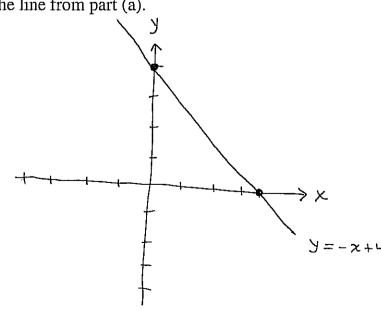
### This quiz is marked out of 15 marks

### Question 1. (5 marks)

(a) Find the equation of the line passing through the points (3,1) and (-1,5).

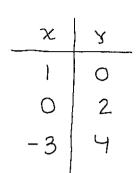
SLope 
$$m = \frac{5-1}{-1-3} = \frac{4}{-4} = -1$$

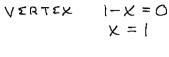
(b) Graph the equation of the line from part (a).

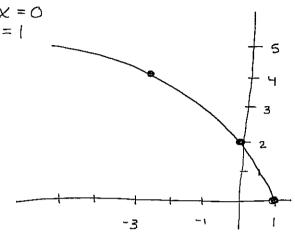


## Question 2. (5 marks)

(a) Graph the function  $y = 2\sqrt{1-x}$ . Indicate at least three points on the graph.



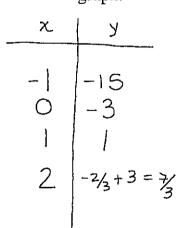


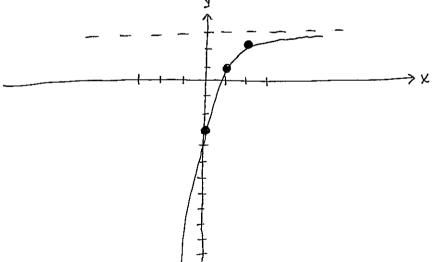


(b) Give the domain and range of the function in part (a).

## Question 3. (5 marks)

(a) Graph the function  $y = -2(3)^{1-x} + 3$ . Indicate at least three points on the graph.





(b) Find domain and range of y = f(x).

DOMAIN B

RANGE  $(-\infty,3)$