

20/20 = 100

## Support for College Algebra

Spring 2017

### Quiz #3 - M. Goodroe

Name \_\_\_\_\_

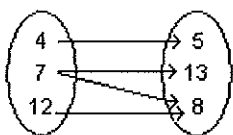
*Key*

Date \_\_\_\_\_

Show all work on quiz. EXPLAIN your answers to the following questions.

Decide whether the relation defines a function.

1)



Not a function because of  
 $(7, 13)$  &  $(7, 8)$

2)  $\{(1, -4), (2, -2), (6, 7), (8, -7), (11, -1)\}$

a function because each element in the domain is paired only one element in the range.

3)  $y = 4x - 6$

a function because  $x$  times 4 minus 6 gives one output  $y$ .

4)  $y^2 = 4x$

Not a function  $y = +\sqrt{4x}$  &  $-\sqrt{4x}$   
i.e. there are two values for one input of  $x$ .

5)  $y = \sqrt{7x - 4}$

a function, because the square root of  $7 \cdot x - 4$  gives one  $y$  value.