Student Name:

Directions: Answer each question below, showing all pertinent work.

1. Write each equation in function notation, then solve the function for the given value.

Equation Given Value	Function	Solution
$y = 15x - 40$ when x = 3		
$y = \dfrac{2}{3}x + 20$ when x = 21		
$y = (3x)^2 + 17$ when x = -2		
$y = 2.5x + 5.8$ when x = 0.6		
$y = \dfrac{3}{4}x - \dfrac{5}{8}$ when $x = \dfrac{1}{4}$		

Functions Assignment

2. Determine whether each relation is a function. If so, provide the domain and range.

a. Width versus area.

Width (m)	Area (m²)
1	6
5	50
10	150
11	176
14	266

Function?

If so,
Domain =

Range =

b. Hours worked versus salary.

Hours Worked	Salary
0	0
10	$300
20	$600
30	$900
40	$1200

Function?

If so,
Domain =

Range =

c. Height versus age.

Height (cm)	Age (years)
160	20
160	25
160	30
160	35
160	40
160	45
160	50

Function?

If so,
Domain =

Range =