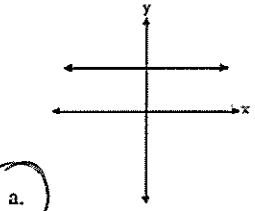
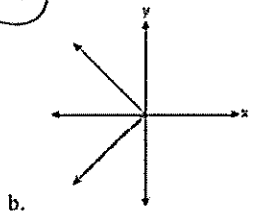
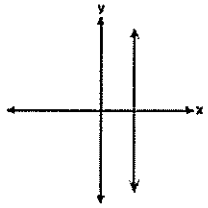
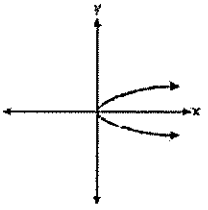
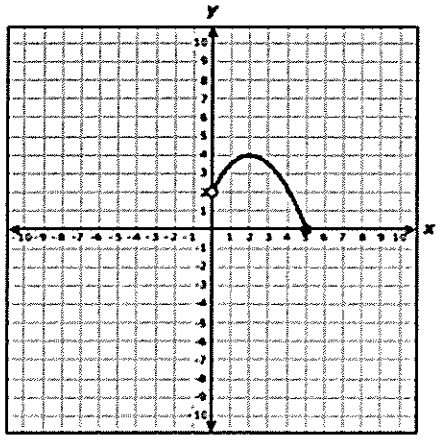
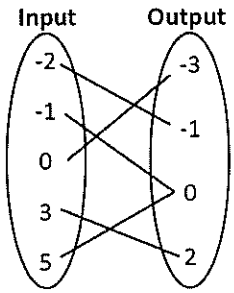
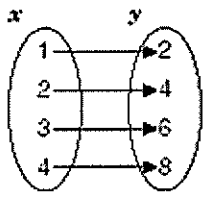
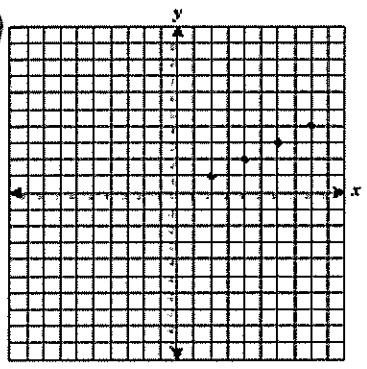
Year 11 Methods Week 3 Quiz

$\frac{}{15}$

Name: _____

1.	True or False: A relation is a function. False ✓	1
2.	Which of the following is NOT a function? **A** $y=\frac{1}{x+3}$ **B** $x=y^2-7y+1$ **C** $x^2-y+1=0$ **D** $3x-y-1=0$	1
3.	Which graph represents a function? a.  b.  c.  d. 	1
4.	What is the domain of the function graphed below?  A. $0<x\leq 5$ B. $2<x\leq 5$ C. $0<x\leq 4$ D. $0<x<2$	1

5.	What is the range for the mapping below?  $R = \{-3, -1, 0, 2\}$ ✓ notation ✓ correct range	4
6.	What is the range of the function f(x) = 5x + 4 when the domain is {-2, 3, 5} $R = \{-6, 19, 29\}$ ✓✓ only penalise notation in Q5.	2
7.	If $f(x) = 5 - 7x$, then find: a) $f(-3) = 5 - 7(-3)$ $= 26$ ✓ b) $f(x) = -2$ $5 - 7x = -2$ ✓ $-7x = -7$ $x = 1$ ✓	3
8.	The function $f(x)$ = {(1, 2), (2, 4), (3, 6), (4, 8)} can be represented in several other ways. Which is NOT a correct representation of the function $f(x)$? a)  b)  c) x is a natural number less than 5 & y is twice x d) $y = 2x$ and the domain is {1, 2, 3, 4}	1
9.	Find the degree measure of the arc of a sector with area 36π if the area of the circle is 144π. $\frac{x}{360} \times 144\pi = 36\pi$ ✓ $\frac{x}{360} = \frac{36}{144} = \frac{1}{4}$ ✓ $x = \frac{1}{4} \times 360$ $= 90°$ ✓	3