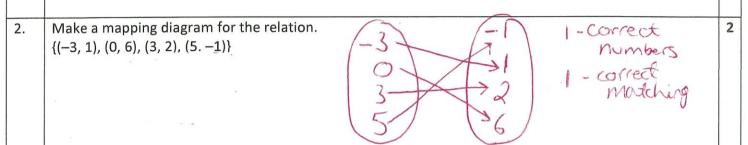


## Year 11 Methods Week 6 Quiz

25

Name: \_\_\_\_\_

1.	Which set of coordinates describes a function?		1
	<b>A.</b> {(-5, -1), (-3, -3), (-1, -5), (-5, -7)}	B. {( 6, 3), (4, 5), (2, 3), (0, 5)}	
	<b>C.</b> {(4, -3), (-4, -6), (4, 3), (-4, 6)}	<b>D.</b> {(2,4), (2,-4), (4,8), (6,2)}	



$$M = \frac{20}{4} = 5$$

$$2=5\times1+C$$
  
 $2=5+C$   $C=-3$   
C. Is (3, 25) on this line? Justify your answer.

y=50c-5

4. Write the equation of the line that passes through 
$$(8, -2)$$
 and is perpendicular to  $4x - 2y = 9$ .

$$y = + 2x - 3$$
  $-2 = 5 \times 8 + C$   $y = -5x + 2 \checkmark$   $y = -5$ 

5. Write the equation of the line that passes through the point 
$$(2, 1)$$
 and is parallel to  $y = 4x - 3$ .

Write the equation of the line that passes through the point (2, 1) and is parallel to 
$$y = 4x - 3$$
.

$$M = 4 \qquad 1 = 2 \times 4 + C$$

$$-7 = C$$

$$V = 4x - 7$$

6.	Explain the following terms using complete sentences and your own words:	2	
0.			
	A. Domain  Set of x-values in a relation. It is the input.		
	A. Domain		
	Sof of x-values in a recent		
	B. Range		
	Set of y-values in a relation. It is the output.		
	Set of 4-values 11) a record 1. 17 to		
		_	
7.	Find the reference angle for $\frac{5\pi}{6}$ radians.	1	
	6		
	6		
8.	Find the exact value of:	2	
0.		_	
	A. sin 150°		
	$\pi$		
	<b>B.</b> $\tan \frac{\pi}{4}$		
	7-	-	
9.	In a circle with radius 10 centimeters, an arc is intercepted by a central angle with measure $\frac{7\pi}{4}$ . Find	2	
	4		
	the arc length.		
	$l = ro$ $= lo \times \frac{\pi}{4}$	1	
	=10 × 4		
	= 35m / 55cm		
	L		
10	A	2	
10.	A sector of a circle has an area of 25 cm <sup>2</sup> and a central angle angle of 0.5 radians. Find its radius and arc		
	length. $a5 = \frac{1}{2} \times r^2 \times (0.5 - 5.00.5)$ $(-10 \times 0.5)$		
	03-2 X1 X (03		
	10cm=r. / = 5cm /		
	10cm 1. V		
	•		
11.	If $\sin\theta < 0$ and $\tan\theta > 0$ , in which quadrant does $\theta$ lie?	1	
		8000	
	Sind - Sta Quadrant 3.		
	Tan o + The		
12		3	
12.	The lines $2x + 3y = 12$ and $4x + 5y = 20$ meet at point P. Find the coordinates of point P.	5	
	The lines $2x + 3y = 12$ and $4x + 5y = 20$ meet at point P. Find the coordinates of point P. $2x + 3y = 12$ $4x + 3y = 12$ $-(4x + 3y = 20)$ $-2y = -8$ $y = 4$ $y = 4$ $P = (0.4)$		
	4x +54=20) 2~=0		
	4x + 5y = 20 $-(4x + 5y = 20)$ $-24 = -8$ $x = 0$		
	-29= 0		
	9=4 P=(0,4)		
	1=(0,+)		
-			