

Quiz 2

1) Choose:

1-The point $(-2, 5)$ lies on the quadrant.

- a) 1st b) 2nd c) 3rd d) 4th

2-The point (.....) lies on the 4th quadrant.

- a) $(-2, 5)$ b) $(5, -2)$ c) $(-3, -4)$ d) $(4, 5)$

3- If the point $(x, -x)$ lies on 2nd quadrant then $x = \dots\dots\dots$

- a) 0 b) 7 c) -11 d) 4

4- If the point $(7, b - 5)$ is located on the $x - axis$ then , $b = \dots\dots\dots$

- a) 5 b) -5 c) 0 d) -7

5- $(|x|, 4) = (3, y^2)$ and the point (x, y) lies in the second quadrant then $x + y = \dots\dots\dots$

- a) 7 b) 1 c) -1 d) -7

2) If $x = \{1, 2, 3\}$, $y = \{1, 3, 4, 6, 9\}$ where R is relation from x to y , $a R b$ mean $b = 3a$ for $a \in x, b \in y$, write R then represent by arrow diagram,

Is R a function? Write the domain, co domain and the rang?

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3) If $X = \{5, 3, 1, 0, -5, -3, -1\}$ where R is relation on x , $a R b$ mean b is additive inverse of a where $a, b \in X$, write R then represent by arrow diagram, **Is R a function? Write the domain, co domain and the rang?**

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4) Choose;**1) If $n(x^2) = 16$,so $n(x) =$**

- a) 4 b) 8 c) 2 d) 6

2) If $n(\mathcal{X} \times \mathcal{Y}) = 10$, $n(x) = 2$, so $n(y) =$

- a) 4 b) 3 c) 2 d) 5

3) If $n(x) = 3$, $n(y) = 5$, so $n(\mathcal{X} \times \mathcal{Y}) =$

- a) 3 b) 15 c) 5 d) 6

4) $\mathcal{X} \times \Phi =$, $n(x \times \Phi) =$

- a) Φ b) 1 c) 0 d) 2

5)If $x = \{0\}$ then $x^2 =$

- a) $\{0\}$ b) $(0,0)$ c) $\{(0,0)\}$ d) 0

6)If $(x - y) \times y = \{(1, 2) , (1, 3)\}$, $n(x \times y) = 6$,**then $n(x) =$**

- a) $\{3\}$ b) 1 c) 2 d) 3

7) If $x = \{3\}$, $y = \{6\}$ so : $n(x \times y) =$

- a) 18 b) {18} c) 3 d) 6

8) If $x = \{7\}$, so $n(x) = \dots$

- a) 1 b) 7 c) 4 d) 6

9) If $x \times y = \{(1, 3), (1, 4), (5, 3), (5, 4)\}$, so

$x = \dots$

- a) {1, 4} b) {8, 5} c) (1, 5) d) {1, 5}

10) If $x \times y = \{(5, 6), (5, 2), (5, 3)\}$, so : $n(x) = \dots$

- a) 1 b) 5 c) 2 d) {5}

11) $n(x) = 3$, $n(x \times y) = 6$, so: $n(y) = \dots$

- a) 4 b) 8 c) 2 d) 6

12) If $n(x \times y) = 6$, $x = \{3\}$, so: $n(y) = \dots$

- a) 4 b) 1 c) 2 d) 6

13) If $n(x \times y) = 8$, $y = \{3, 2\}$, so: $n(x) = \dots$

- a) 4 b) 8 c) 2 d) 6

14) If $n(x \times y) = 6$, $n(x^2) = 4$, so: $n(y^2) = \dots$

- a) 9 b) 8 c) 2 d) 6

16) If $x = \{3, 5\}$, $y = \{1, 2\}$ so $(3, 1) \in \dots$

- a) $X \times Y$ b) Y^2 c) X^2 d) $Y \times Y$