MODULE 1

LESSON 3

QUIZ

1. Question. Which of the following relations could have the set

$$(-\infty, -1) \cup (-1, -2) \cup (-2, \infty)$$

as its domain?

A. $\frac{3x+2}{(x+1)(x+2)}$

B. $\frac{11x-8}{(x-1)(x+3)}$

C. $\frac{15x-4}{(x-3)(x+4)}$

D. $\frac{3x+2}{(x-5)(x+7)}$

Go to answer 1

2. Question. Which of the following relation could have the set $[-1, \infty)$ as its domain?

A. $\sqrt{x-1} = y$

B. $y^2 = x + 1$

C. $x^2 = y + 1$

D. $\sqrt{y+1} = x$

Go to answer 2

3. Question. Which of the following sets is the domain of the relation

$$R = \{(-1, 2), (4, 3), (5, 0), (2, 7)\}?$$

A. $\{-1, 0, 2, 3, 4, 5, 7\}$

B. $\{2, 3, 0, 7\}$

C. $\{-1, 4, 5, 2\}$

D. $\{(-1, 2), (4, 3), (5, 0), (2, 7)\}$

Go to answer 3

4. Question. Which of the following sets is the range of the relation

$$R = \{(-1, 2), (4, 3), (5, 0), (2, 7)\}?$$

A. $\{(-1, 2), (4, 3), (5, 0), (2, 7)\}$

B. $\{-1, 4, 5, 2\}$

C. $\{-1, 0, 2, 3, 4, 5, 7\}$

D. $\{2, 3, 0, 7\}$

Go to answer 4

5. Question. Which of the following sets is the domain of the relation defined by the equation $2x + 3y = 5$?

A. $\{2, 3, 5\}$

B. $\{x | x > 0\}$

C. $(-\infty, \infty)$

D. $[0, \infty)$

Go to answer 5

6. Question. Which of the following sets is the range of the relation defined by the equation $2x + 3y = 5$?

   A. $\{2, 3, 5\}$

   B. $\{y | y > 0\}$

   C. $(2, 3)$

   D. $(-\infty, \infty)$

   Go to answer 6

7. Question. Which of the following sets is the domain of the relation defined by the equation $xy = 1$?

   A. $(-\infty, 0) \cup (0, \infty)$

   B. $\{x | x > 0\}$

   C. $[0, \infty)$

   D. $(-\infty, \infty)$

   Go to answer 7

8. Question. Which of the following sets is the range of the relation defined by the equation $xy = 1$?

   A. $\{y | y \neq 0\}$

   B. $\{y | y > 0\}$

   C. $[0, \infty)$

   D. $(-\infty, \infty)$

   Go to answer 8

9. Question. Which of the following sets is the domain of the relation defined by the equation $y = x^2 - 3$.

   A. $\{x|x \neq 0\}$

   B. $\{x|x > 3\}$

   C. $[\sqrt{3}, \infty)$

   D. $(-\infty, \infty)$

   Go to answer 9

10. Question. Which of the following sets is the range of the relation defined by the equation $y = x^2 - 3$.

    A. $\{y|y \neq 0\}$

    B. $\{y|y \geq -3\}$

    C. $[\sqrt{3}, \infty)$

    D. $(-\infty, \infty)$

    Go to answer 10

11. Question. Which of the following sets is the domain of the relation defined by the equation $y = \frac{x}{x-2}$.

    A. $\{x|x \neq 0\}$

    B. $(-\infty, 2) \cup (2, \infty)$

    C. $\{x|x > 2\}$

    D. $(-\infty, \infty)$

    Go to answer 11

12. Question. Which of the following sets is the range of the relation defined by the equation $y = \frac{x}{x-2}$.

    A. $\{y|y \neq 1\}$

    B. $(-\infty, 2) \cup (2, \infty)$

    C. $\{y|y > 0\}$

    D. $(-\infty, \infty)$

    Go to answer 12

13. Question. Which of the following sets is the domain of the relation defined by the equation $y^2 = x - 3$.

    A. $\{x|x \geq 3\}$

    B. $(-\infty, 3) \cup (3, \infty)$

    C. $\{x|x > 3\}$

    D. $(-\infty, \infty)$

    Go to answer 13

14. Question. Which of the following sets is the range of the relation defined by the equation $y^2 = x - 3$.

    A. $\{y|y \geq 3\}$

    B. $(-\infty, 3) \cup (3, \infty)$

    C. $\{y|y > 3\}$

    D. $(-\infty, \infty)$

    Go to answer 14

ANSWERS

1. Answer to Question 1 is "A".

   Go back 1

2. Answer to Question 2 is "B".

   Go back 2

3. Answer to Question 3 is "C".

   Go back 3

4. Answer to Question 4 is "D".

   Go back 4

5. Answer to Question 5 is "C".

   Go back 5

6. Answer to Question 6 is "D".

   Go back 6

7. Answer to Question 7 is "A".

   Go back 7

8. Answer to Question 8 is "A".

   Go back 8

9. Answer to Question 9 is "D".

   Go back 9

10. Answer to Question 10 is "B".

    Go back 10

11. Answer to Question 11 is "B".

    Go back 11

12. Answer to Question 12 is "A".

    Go back 12

13. Answer to Question 13 is "A".

    Go back 13

14. Answer to Question 14 is "D".

    Go back 14