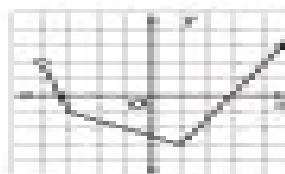


1 Chapter 1 Test, Form 2C

SCORE _____

1. State the domain and range of the function shown.



2. Given $f(x) = 2x^2 - x$, find $f(x + h)$.

3. Find the zero of $f(x) = 4x + \frac{7}{3}$.

4. Find $f(-7)$ for $f(x) = \begin{cases} -(2x - 1) & \text{if } x < -3 \\ x^2 & \text{if } x \geq -3 \end{cases}$.

5. Determine whether the graph of $x = 5y^2 - 2$ is symmetric with respect to the x -axis, the y -axis, or the origin.

6. Determine whether the function $f(x) = \frac{x^2 - 9}{x^2 + 4}$ is even, odd, or neither.

7. Determine whether $f(x) = \frac{x^2 - 9}{x + 3}$ is continuous at $x = -3$. If discontinuous, identify the type of discontinuity as infinite, jump, or removable.

8. Describe the end behavior of $g(x) = -3x^4 - 2x$.

9. **PERSONNEL** The owner of a farm has 30 regular workers who each bring the farm a profit of \$200 per day. For each additional worker hired, this profit decreases by \$2.10 per day. How many additional workers should the owner hire to maximize profits?

10. **FIREWORKS** The height in feet of a firework t seconds after it is launched is modeled by $h(t) = -16t^2 + 160t + 10$. Find its average speed from 1 to 2 seconds.

11. Given $f(x) = -3[x - 2.5]$, what is $f(-10.75)$?

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

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