Q1. Determine algebraically whether the function is even, odd, or neither.f(x) = -5x2 + 4   a. even
   b. odd
   c. neither
Q2. Find the value for the function.Find f(x + h) when f(x) = ****.   a. 
   b. 
   c. 
   d. 
Q3. The graph of a piecewise-defined function is given. Write a definition for the function. ****<b</b   a. 
   b. 
   c. f(x) = 
   d. 
Q4. Find the value for the function.Find -f(x) when f(x) = 2x2 - 5x + 3.   a. -2x2 + 5x + 3
   b. 2x2 + 5x + 3
   c. -2x2 + 5x - 3
   d. 2x2 + 5x - 3
Q5. Locate any intercepts of the function. ****   a. (0, 0), (0, 1)
   b. (0, 0)
   c. (0, 0), (1, 0)
   d. none
Q6. The graph of a function is given. Decide whether it is even, odd, or neither. ****   a. even
   b. odd
   c. neither
Q7. List the intercepts of the graph.Tell whether the graph is symmetric with respect to the x-axis, y-axis, origin, or none of these. ****<b</b   a. (-1, 0), (0, 0), (1, 0); symmetric to origin, x-axis, and y-axis
   b. (-1, 0), (0, 0), (1, 0); symmetric to origin
   c. (-1, 0), (0, 0), (1, 0); symmetric to y-axis
   d. (-1, 0), (0, 0), (1, 0); symmetric to x-axis
Q8. For the given functions f and g, find the requested function and state its domain.f(x) = 2x + 1; g(x) = 5x - 2Find ****.   a. ()(x) = ; {x|x ≠ }
   b. ()(x) = ; {x|x ≠ - }
   c. ()(x) = ; {x|x ≠ - }
   d. ()(x) = ; {x|x ≠ }
Q9. Based on the graph, find the range of y = f(x). **

**<b</b   a. [0, 6]
   b. [0, 6)
   c. [0, ]
   d. [0, ∞)
Q10. The cost C of double-dipped chocolate pretzel O's varies directly with the number of pounds of pretzels purchased, P. If the cost is $5442 when 5.0 pounds are purchased, find a linear function that relates the cost C to the number of pounds of pretzels purchased P. Then find the cost C when 6.0 pounds are purchased.   a. C = 0.092P; $0.55
   b. C = 10.884P; $65.30
   c. C = ; $45.35
   d. C = 9.07P; $45.35
Q11. Match the graph to the function listed whose graph most resembles the one given. ****   a. square function
   b. cube function
   c. square root function
   d. cube root function
Q12. Answer the question about the given function.Given the function f(x) = -3x2 - 6x - 6, is the point (-1, -3) on the graph of f?   a. Yes
   b. No
Q13. Determine whether the equation is a function.x + 8y = 5   a. function
   b. not a function
Q14. Answer the question about the given function.Given the function f(x) = x2 + 3x - 40, list the x-intercepts, if any, of the graph of f.   a. (8, 0), (-5, 0)
   b. (8, 0), (5, 0)
   c. (-8, 0), (5, 0)
   d. (-8, 0), (1, 0)
Q15. Answer the question about the given function.Given the function f(x) = -7x2 + 14x + 4, if x = 1, what is f(x)? What point is on the graph of f?   a. 11; (1, 11)
   b. 11; (11, 1)
   c. -17; (1, -17)
   d. -17; (-17, 1)
Q16. Determine if the type of relation is linear, nonlinear, or none. ****   a. None
   b. Linear
   c. Nonlinear
Q17. If f(x) = 4x3 + 7x2 - x + C and f(2) = 1, what is the value of C?   a. C = 7
   b. C = 11
   c. C = 63
   d. C = -57
Q18. Given: E=I/R and P=IE with the values: P=10 and E=100 What are the values for I and R?   a. R=.001, I=0.1
   b. R=100, I=100
   c. R=0.1, I=1000
   d. Cannot be solved without the value of another variable.
Q19. Determine whether the relation represents a function. If it is a function, state the domain and range. ****   a. function
      domain: {Ms. Lee, Mr. Bar}
      range: {Bob, Ann, Dave}
   b. function
      domain: {Bob, Ann, Dave}
      range: {Ms. Lee, Mr. Bar}
   c. not a function
Q20. Find the domain of the function.g(x) = ****   a. {x|x ≠ 0}
   b. {x|x > 64}
   c. {x|x ≠ -8, 8}
   d. all real numbers