Chapter lest Form A Name (Page 1 of 4 pages) Date	
Determine whether the relation is a function. (0, 4), (1, 4), (2, 5), (3, 6), (4, 6)	1.
Find $f(\frac{2}{3})$.	2
$f(x) = 18x^2 - 12x - 3$	
Geometry The surface area of a sphere with radius r is given b $f(r) = 4\pi r^2$. Find $f(\frac{3}{2})$.	ру 3
Find the domain and range of the function. $f(x) = \frac{2}{\sqrt{x-4}}$	4
5 and 6, $f(x) = 3 - 2x$ and $g(x) = 4x + 1$.	
$h(x) = g(x) \div f(x)$. Write the equation for $h(x)$.	5
Find $g(f(x))$.	6
What is the domain of $h(x)$ in Problem 5?	7

Chapter 6 Test Form A (Page 2 of 4 pages) Name 9._____ 9. Write an equation for the inverse of the relation. y = -11x + 9**10.** Are f and g inverses of each other? 10. _ $g(x) = \frac{1}{2}x - \frac{1}{3}, f(x) = \frac{6x + 2}{3}$ **11.** Sketch the graph of the 11. Use graph at left. function. Is the inverse of f(x)a function? $f(x) = 4 - x^2$ 12. Use graph at left. 12. Sketch the graph of the function and its inverse on the same coordinate plane. f(x) = 2 - 2x**13.** Evaluate f(-3). $f(x) = \begin{cases} -x^2 + 2x, & x \le 1 \\ -2x + 3, & x > 1 \end{cases}$ 13. _____ 14. _____ 14. Write f(x) = |x - 4| as a compound function.



Chapter 6 Test Form A (Page 4 of 4 pages) Name

19. Find the first five values of the recursive function.

f(1) = 5; f(n) = f(n-1) - n

20. Shirt Prices The data below represents the price of a shirt at ten stores. Find the *mean, median*, and *mode* of the data.
48, 33, 29, 52, 37, 44, 29, 35, 44, 29



20.

19.