

Name:  
Math 432

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Section:

Function Review + Composition of Function

1. State the family of functions to which each function belongs. Then state the domain & range.

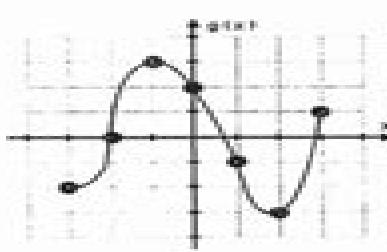
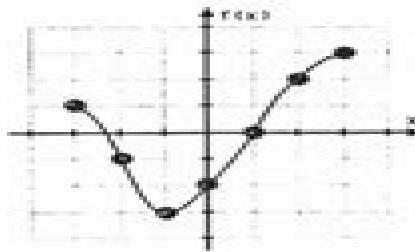
a.  $c(x) = 5$

b.  $g(x) = \sqrt{x+2} - 4$

c.  $h(x) = x^2 - 4x + 7$

d.  $f(x) = |x-2| - 6$

2. Given the functions below,  $f(x)$  on the left and  $g(x)$  on the right. (assume axes are scaled by 1)



a. Find  $f(-1)$ . \_\_\_\_\_

b. Find  $g(3)$ . \_\_\_\_\_

c. Find  $g(x) = -3$ . \_\_\_\_\_

d. Find  $f(3) - g(-2)$ . \_\_\_\_\_

e. Find  $g(f(1)) =$  \_\_\_\_\_

f. Find  $(f \circ g)(2)$  \_\_\_\_\_

3. Let:  $f(x) = 9 - x$ ,  $g(x) = x^2 + x$  and  $h(x) = x - 2$ .

Find:

a)  $f(g(2))$

b)  $g(h(-3))$

c)  $(g \circ f)(6)$

d)  $(f \circ h)(-3)$

4. Given:  $g(x) = x - 6$  and  $f(x) = x^2 - 2x + 4$ , find  $f(g(x))$  in simplest form.

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web geometric sequences are sequences in which the next number in the sequence is found by multiplying the previous term by a number called the common ratio the common ratio is denoted by the letter  $r$  depending on the common ratio the

geometric sequence can be increasing or decreasing if the common ratio is greater than 1 the sequence is  
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