

Function Review + Composition of Function

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

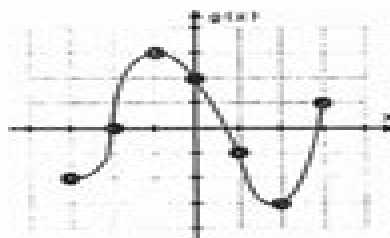
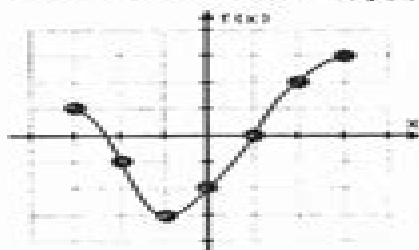
a. $c(x) = 5$

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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