

Review for Precalculus Test #2: Functions

Here are some review problems for this week's test. You should do these problems and study your notes, homework and quizzes from this unit.

1. Is  $y$  a function of  $x$ ? Explain your answer.

- a.  $y = x^2 + 2$       b.  $y = |x - 1|$       c.  $x = y^2 + 2$       d.  $y = f(x)$  (see graph)

2. Find the domain and zeros of each function:

- a.  $y = \sqrt{9 - x}$       b.  $y = \sqrt{x^2 - 9}$       c.  $y = \frac{x+2}{x-2}$       d.  $y = \frac{x^2 - 5x + 6}{4x^2 - 1}$

3. Find the domain, range and zeros of  $y = f(x)$ . (see graph)

4. Consider the functions  $f(x) = x^2 - 1$  and  $g(x) = 2x^2$ . Write and simplify an expression for the following.

- a.  $(f + g)(x)$       e.  $(f \circ g)(x)$   
 b.  $(f - g)(x)$       f.  $(g \circ f)(x)$   
 c.  $(fg)(x)$   
 d.  $\left(\frac{f}{g}\right)(x)$  What is the domain of this function?

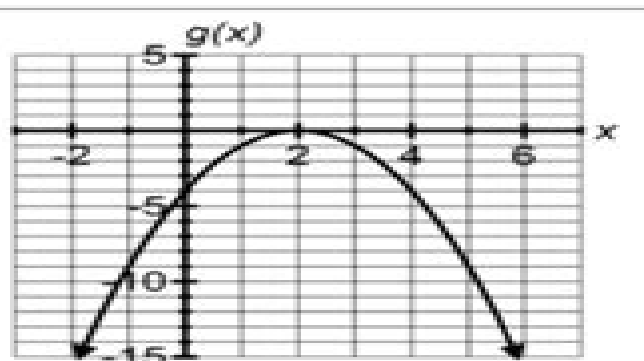
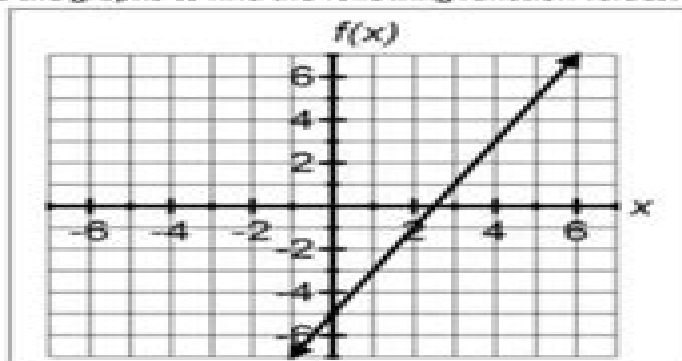
5. Use the tables below to find the following function values.

$x$	-1	0	1	2	3
$f(x)$	0	1	2	3	4

$x$	1	2	3	4
$g(x)$	-1	1	3	5

- a.  $(f + g)(3)$       d.  $\left(\frac{f}{g}\right)(2)$       g.  $(g \circ g)(2)$   
 b.  $(f - g)(1)$       e.  $(f \circ g)(1)$       h.  $f^{-1}(3)$   
 c.  $(fg)(2)$       f.  $(g \circ f)(3)$       i.  $g^{-1}(1)$

6. Use the graphs to find the following function values.



- a.  $(g - f)(4)$       b.  $(gf)(0)$       c.  $(f \circ g)(2)$       d.  $(g \circ f)(4)$       e.  $f^{-1}(-3)$

# Precalculus Unit Test

**Jicheng Xie**



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