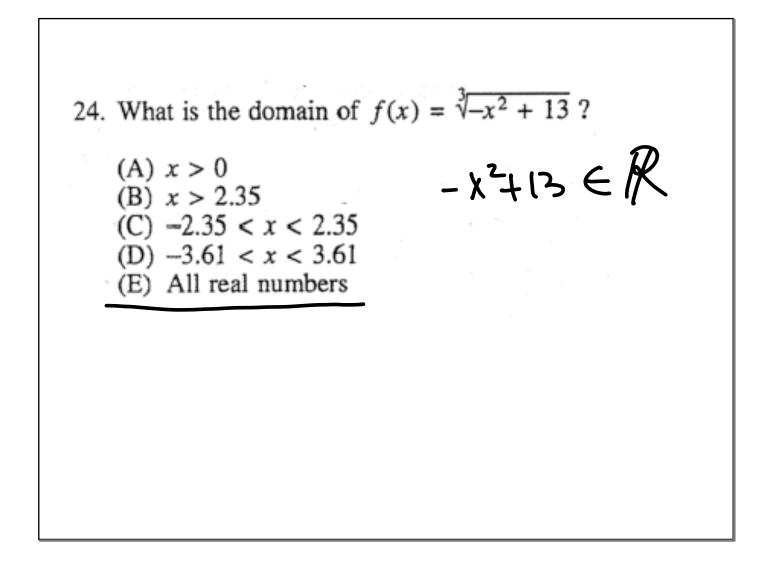
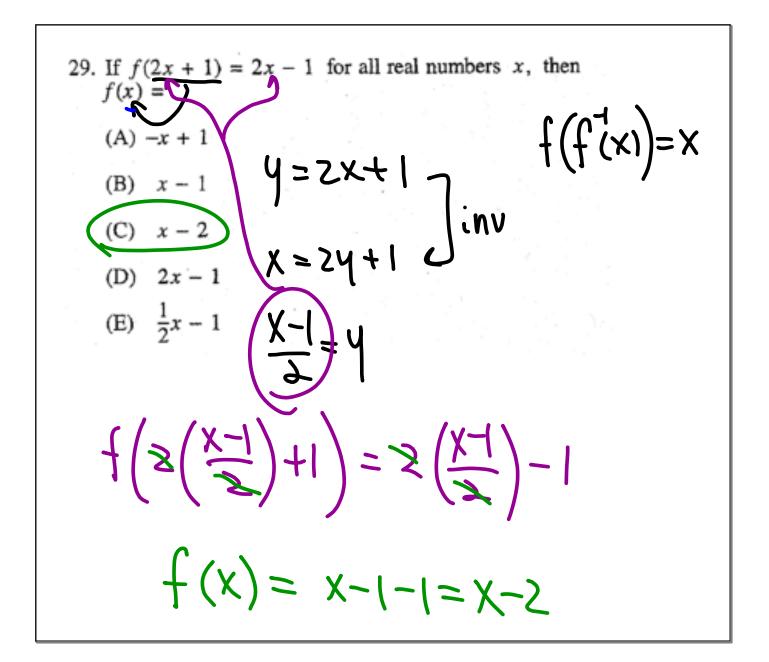
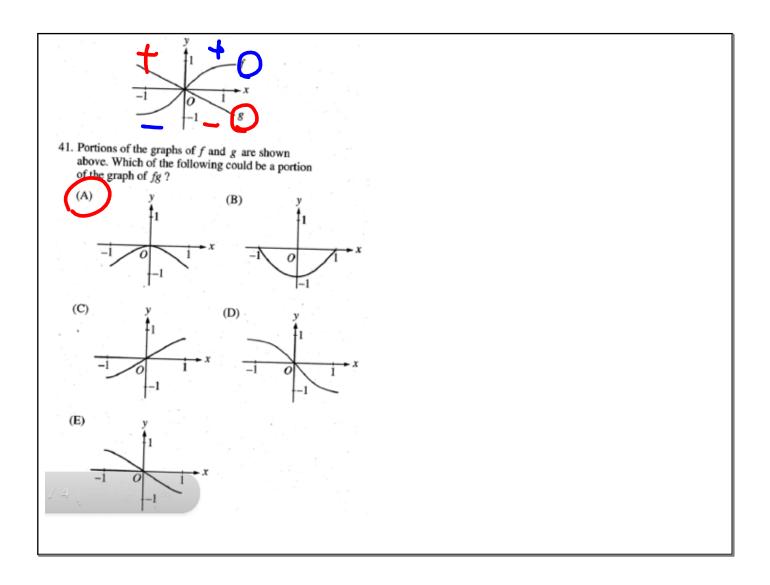
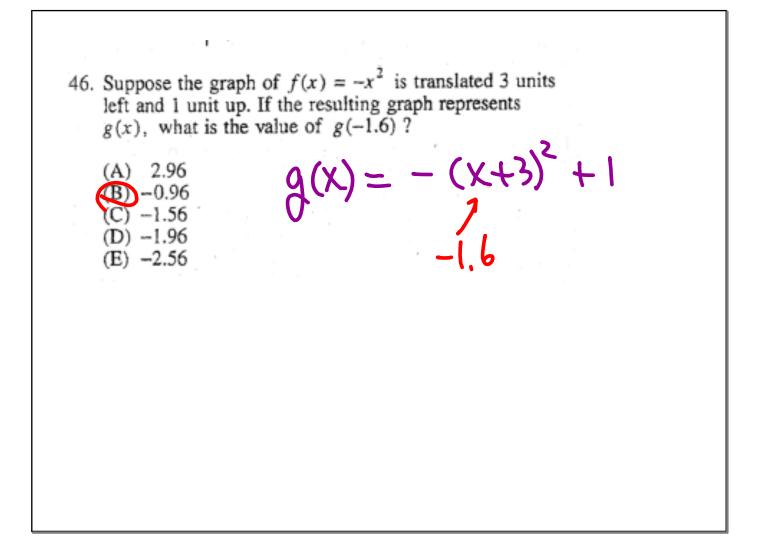
7. If 
$$f(x) = \sqrt{0.3x^2 - x}$$
 and  $g(x) = \frac{x+1}{x-1}$ , then  $g(f(10)) = \oint(\sqrt{20})$   
(A) 0.2 (B) 1.2 (C) 1.6 (D) 4.5 (E) 5.5  
 $f((0)) = \sqrt{-3(10)^2 - (0)} = \frac{\sqrt{20} + 1}{\sqrt{20} - 1}$   
 $= \sqrt{20}$ 

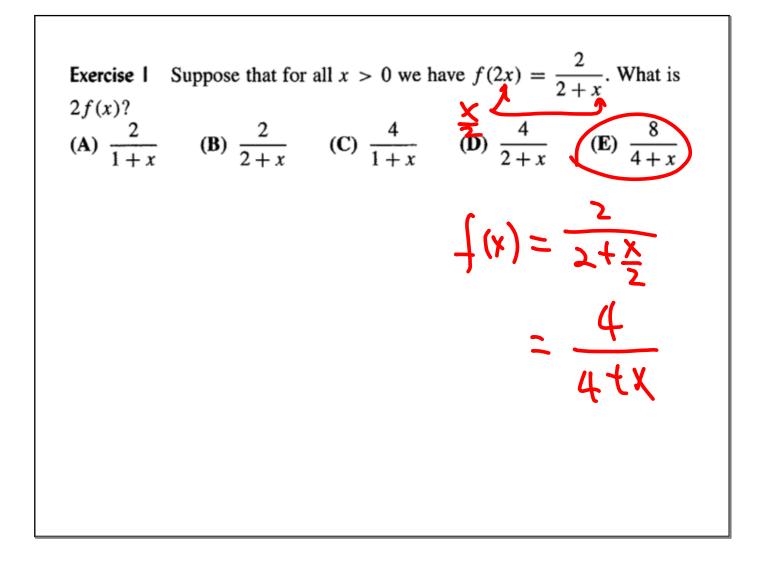
Г











Exercise 2 The function f is defined for positive integers n by:  $f(n) = \begin{cases} n+3, & \text{if } n \text{ is odd,} \\ n/2, & \text{if } n \text{ is even} \end{cases}$ Suppose k is an odd integer and that f(f(f(k))) = 27. What is the sum of the digits of k (**B**) 6 (**C**) 9 **(D)** 12 **(E)** 15 **(A)** 3 (n+3 = 27) n=34 n=54 f(f(K)) = 54 f(f(K)) = 54 n=54 n=54 f(f(K)) = 54 n=54 n=54 f(f(K)) = 54 n=54 n=54 n=54 n=54 f(f(K)) = 54 n=54 n=541=51 N=108 f(K)=51 or f(K)=108  $\begin{array}{c} +(k-)=51 \\ (k-)=51 \\ (k-)=51 \\ (k-)=251 \\ (k-)=$ 

