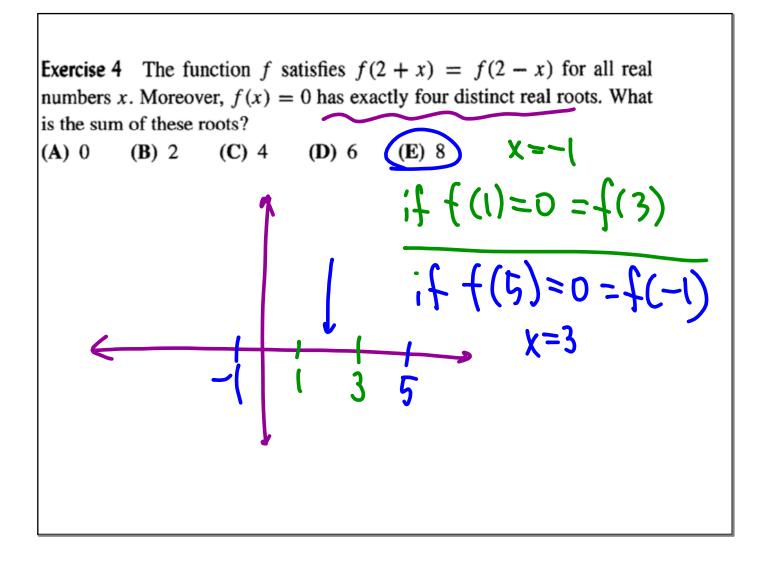
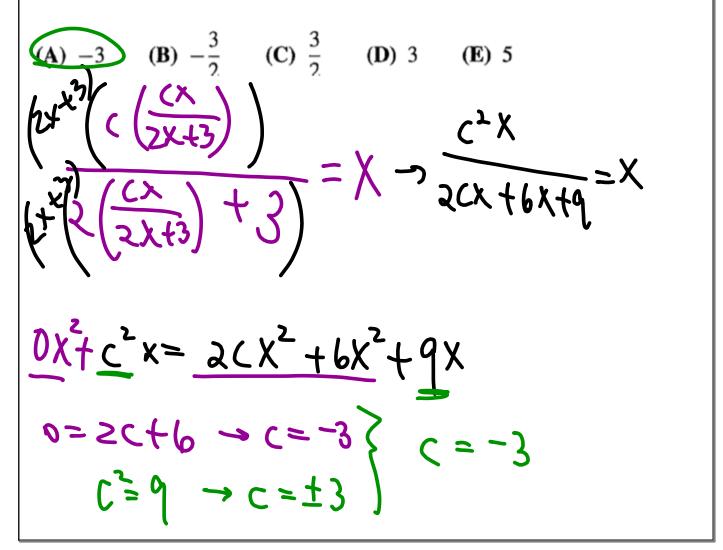
Exercise 3 Let 
$$f(x) = ax^7 + bx^3 + cx - 5$$
, where  $a, b, and c$  are constants.  
Suppose that  $f(-7) = 7$ . What is  $f(7)$ ?  
(A)  $-17$  (B)  $-7$  (C) 14 (D) 17 (E) 21  
 $g(x) = f(x) + 5$   
 $g(-x) = -g(x)$   
 $g(-x) = -g(x)$   
 $g(-7) = -g(7)$   
 $g(-7) = -12$ 



**Exercise 5** Suppose that the function f, for  $x \neq -3/2$ , is defined by

$$f(x) = \frac{cx}{2x+3},$$

and that f(f(x)) = x for all real numbers in its domain. What is the value of c?

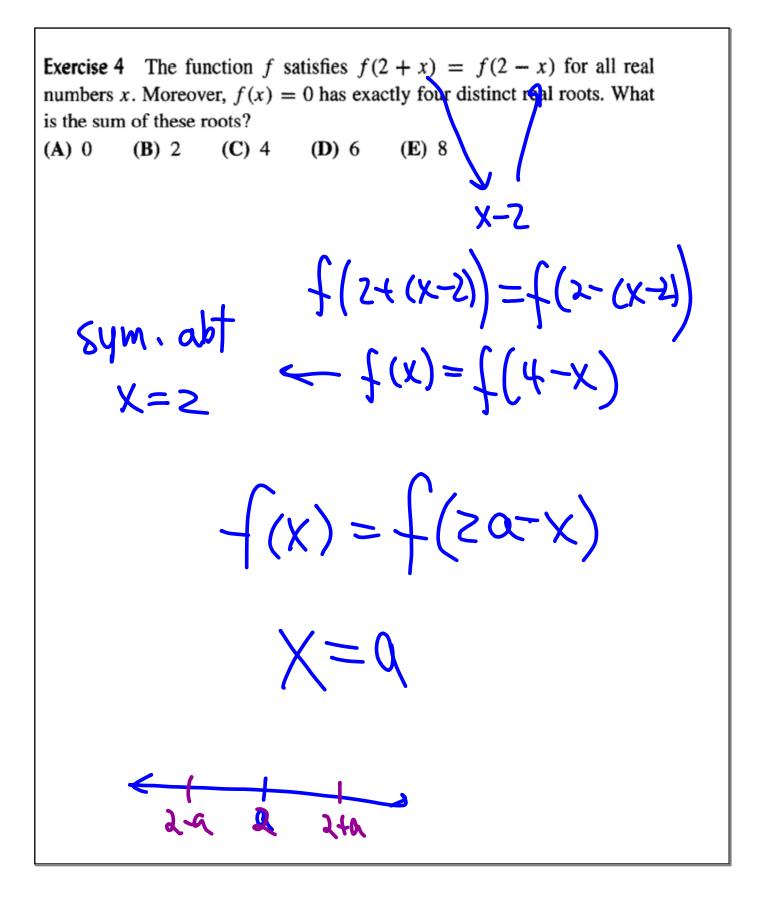


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Exercise 5 Suppose that the function f, for 
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$$f(x) = \frac{cx}{2x+3},$$
and that  $f(f(x)) = x$  for all real numbers in its domain. What is the value  
of c?  
(A) -3 (B)  $-\frac{3}{2}$  (C)  $\frac{3}{2}$  (D) 3 (E) 5  
 $Y = \frac{cX}{2X+3}$  (D)  $X = \frac{CY}{2Y+8}$   
 $ZXY + 3X = CY$   
 $2XY + 3X = CY$   
 $2XY - CY = -3X$   
 $Y = \frac{-3X}{2X-C}$ 

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$$f(g(x)) = x$$
  
 $G f a g w,$