33. 
$$f(x) = \frac{x}{x+1}$$

$$f(ah) = \frac{a}{a+1}$$

$$f(ah) = \frac{a+h}{a+h+1}$$

$$f(ah) = \frac$$

35. 
$$f(x) = 3 - 5x + 4x^{2}$$
  
 $f(a) = 3 - 5a + 4a^{2}$   
 $f(a+h) = 3 - 5(a+h) + 4(a+h)^{2}$   
 $f(a+h) - f(a)$   
 $h$   
 $3 - 5(a+h) + 4(a+h)^{2} - (3 - 5a + 4a^{2})$   
 $h$   
 $5 - 5a + 4a^{2} + 8ah + 4h^{2} - 3 + 5a - 4a^{2}$   
 $h$   
 $-5h + 8ah + 4h^{2} - 4h + 8a - 5$ 

h+0,

19. Find all real values of 
$$x$$
 that satisfy  $|x| + 3 - |x + 3| = 6$ .

 $|x| \le -3$ 
 $|x| = 0$ 
 $|x| \le -3$ 
 $|x| = 0$ 
 $|x| = 3$ 
 $|$ 

In the cube determined by  $1 \le x \le 2$ ,  $1 \le y \le 2$ ,  $1 \le z \le 2$ , determine the maximum numerical value of the function f defined by f(x,y,z) = xyz - 3yz + 2x - 5.

$$= 48(x-3) + 2x-5-1 + 1$$

$$= (x-3)(48+2) + 1$$

$$= (2-3)(1.1+2)$$

$$= (-1)(3) + 1 = -2$$

$$-2 \le X \le 7$$

$$-5 \le 4 \le 3$$

$$-7 \le x + 4 \le 10$$

$$-5 = -2 - 3 \le x - 4 \le 7 - (-5) = 12$$

$$-35 \le x + 5 \le 7 - 3 = 21$$