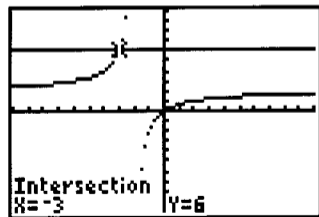


55 (a) **Symbolic:**  $\frac{2x}{x+2} = 6 \Rightarrow 2x = 6(x+2) \Rightarrow 2x = 6x+12 \Rightarrow 4x = -12 \Rightarrow x = -3$

(b) **Graphical:** Graph  $Y_1 = (2X)/(X+2)$  and  $Y_2 = 6$  in  $[-10, 10, 1]$  by  $[-10, 10, 1]$  using dot mode, see *Figure 55a*. The intersection point is  $(-3, 6)$ . The solution is  $x = -3$ .

(c) **Numerical:** Table  $Y_1 = (2X)/(X+2)$  starting at  $x = -5$  and incrementing by 1. The solution is  $x = -3$ , see *Figure 55b*.

$[-10, 10, 1]$  by  $[-10, 10, 1]$



*Figure 55a*

X	Y1	
-5	3.3333	
-4	5	
-3	6	
-2	ERROR	
-1	-2	
0	0	
1	.66667	

X = -3

*Figure 55b*