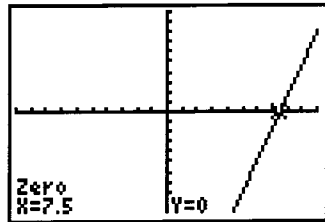


43 (a)  $5.5x - 16 = 2.3x + 8 \Rightarrow 3.2x = 24 \Rightarrow x = \frac{24}{3.2} = 7.5$

(b) Using the  $x$ -intercept method, graph  $Y_1 = (5.5X - 16) - (2.3X + 8)$ . The  $x$ -intercept is 7.5 as shown in *Figure 43a*. The solution is  $x = 7.5$ .

(c) Table  $Y_1 = (5.5X - 16) - (2.3X + 8)$ , starting at  $x = 5$ , incrementing by 0.5. *Figure 43b* shows a table where  $Y_1 = 0$  at  $x = 7.5$ .

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



*Figure 43a*

X	Y <sub>1</sub>
5	-8
5.5	-6.4
6	-4.8
6.5	-3.2
7	-1.6
7.5	0
8	1.6

X=7.5

*Figure 43b*