

**STEP 1** Enter the function  $y = 6.3\sqrt{1013 - x}$  into a graphing calculator. Note that *x* represents air pressure and *y* represents wind velocity. Set up a table to display *x*-values starting at 900 and increasing in increments of 10.





**STEP 2** Make a table of values for the function. The first table below shows that y = 54.5 between x = 930 and x = 940. To approximate x more precisely, set up the table to display x-values starting at 930 and increasing in increments of 1. The second table below shows that y = 54.5 between x = 938 and x = 939.



▶ The mean sustained wind velocity is 54.5 meters per second when the air pressure is between 938 and 939 millibars.