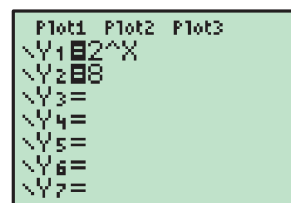


CHAPTER 3 - EXPONENTIAL EQUATIONS

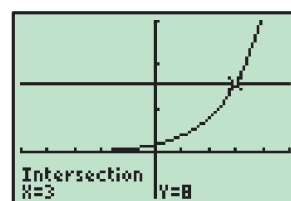
TI-84 Plus

To solve the equation $2^x = 8$, press $\boxed{Y=}$, then store 2^x into Y_1 and 8 into Y_2 . Press $\boxed{\text{GRAPH}}$ to draw a graph of the functions.



Plot1 Plot2 Plot3
Y1=2^X
Y2=8
Y3=
Y4=
Y5=
Y6=
Y7=

To find their point of intersection, press $\boxed{2\text{nd}} \boxed{\text{TRACE}}$ (CALC) **5:intersect**. Press $\boxed{\text{ENTER}}$ twice to specify the functions Y_1 and Y_2 as the functions you want to find the intersection of, then use the arrow keys to move the cursor close to the point of intersection and press $\boxed{\text{ENTER}}$ once more.



The graphs intersect at (3, 8). So, the solution to $2^x = 8$ is $x = 3$.