

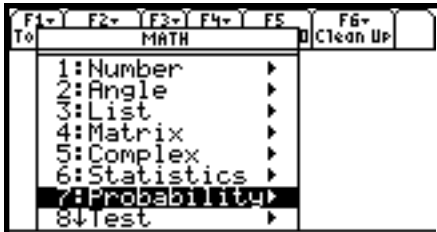
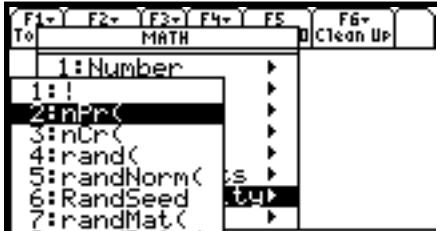
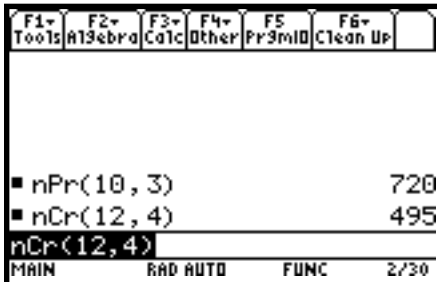
B-14 Permutations and Combinations

Example 1 Find (A) $P_{10,3}$ and (B) $C_{13,4}$ or $\binom{13}{4}$.

Solution (A) and (B):

The quantity $P_{10,3}$ can be found by using the definition $\frac{10!}{7!}$ or using the built-in function nPr.

Similarly for $C_{13,4}$ or $\binom{13}{4}$.

Keystrokes	Screen Display	Explanation
2nd QUIT		Return to the Home Screen and clear.
F1 :Tools		
8 :Clear Home CLEAR		
2nd MATH		
7 :Probability		Choose nPr and press ENTER .
2 :nPr(10 , 3)		Enter the numbers separated by a comma and press ENTER .
ENTER		
2nd MATH		
7 :Probability		
3 :nCr(13 , 4)		
ENTER		
		<p>Repeat for nCr.</p> <p>The results are:</p> <p>$P_{10,3} = 720$</p> <p>$C_{13,4} = 495$</p>