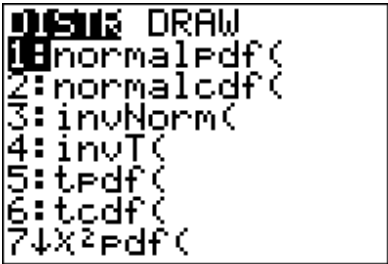
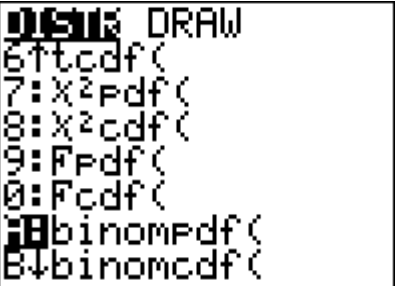
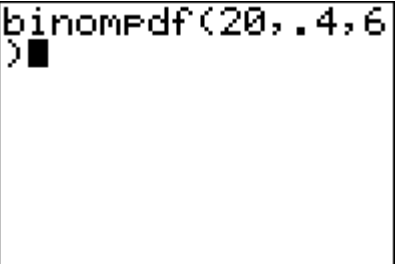
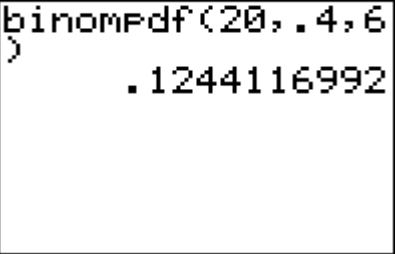


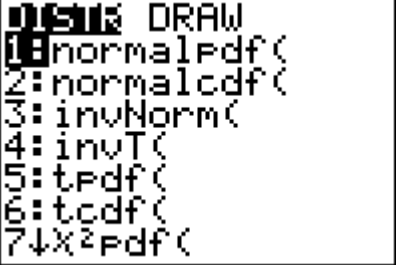
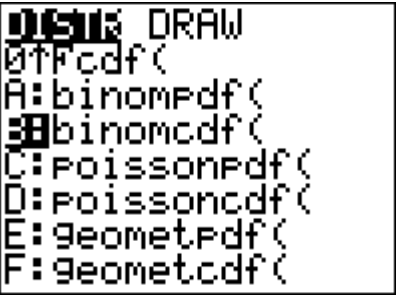
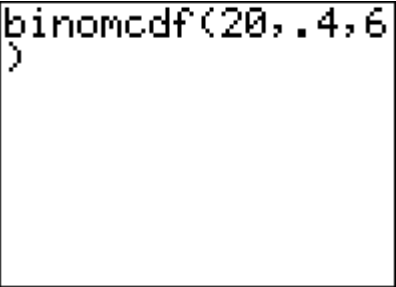
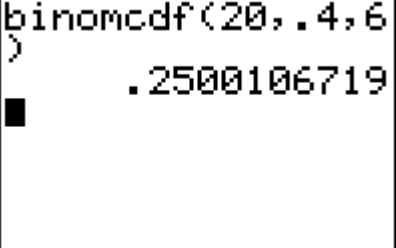
TI Instructions

How to find probabilities of Binomial Distribution:

Given: $p = .4$ and $n = 20$, Find $P(x = 6)$

Steps	Instructions	Screen Shots
1	Press 2nd VARS	
2	Now arrow down to A: binompdf(, then press ENTER to select This feature may appear as 0: binompdf(in some calculator.	
3	Now enter the values for n , p , and X . Make sure to separate them by , which is located directly above number 7 and close the expression by) which is directly above number 9.	
4	Press ENTER to complete the calculation.	

Given: $p = .4$ and $n = 20$, Find $P(x \leq 6)$

Steps	Instructions	Screen Shots
1	Press 2nd VARS	
2	Now arrow down to B: binomcdf(, then press ENTER to select This feature may appear as A: binomcdf(in some calculator.	
3	Now enter the values for n , p , and X . Make sure to separate them by , which is located directly above number 7 and close the expression by) which is directly above number 9.	
4	Press ENTER to complete the calculation.	

You can convert these answers to an exact answer whenever possible by pressing MATH, followed by 1 for 1: ► **Frac**, then **ENTER** twice.

Given: $p = .4$ and $n = 20$,

To Find	You need to do	Screen Shots
$P(x < 6)$	$\text{binomcdf}(n, p, x - 1)$	<pre>binomcdf(20,.4,6-1)</pre>
$P(x \geq 6)$	$1 - \text{binomcdf}(n, p, x - 1)$	<pre>1-binomcdf(20,.4,6-1)</pre>
$P(x > 6)$	$1 - \text{binomcdf}(n, p, x)$	<pre>1-binomcdf(20,.4,6)</pre>

Binomial Distribution formula:

$$P(x = r) = {}_n C_r p^r q^{n-r}$$

Given: $p = .4$ and $n = 20$, Find $P(x = 6)$

$$P(x = 6) = {}_{20} C_6 \cdot (.4)^6 \cdot (.6)^4$$