## Advanced Algebra

## Unit 8 Assignment \#4

1) You have 13 red marbles and 7 green marbles. You will be selecting three marbles without replacement. Make a tree diagram and answer the following questions.
2) What is the probability of getting all green?
3) What is the probability of all red?
4) P( exactly 2 red)
5) $P$ ( at least 1 green $)$
6) P ( at most 2 red)
7) Beth has 10 yellow marbles and 12 red marbles. She will be selecting three marbles without replacement. Make a tree diagram and answer the following questions.

Now I am expanding same problem to taking 4 marbles
Same questions. Can you do this without a tree?

1) What is the probability of selecting all yellow marbles?
2) P( all red)?
3) P ( exactly 2 red)
4) $P$ ( at least 1 yellow)
5) P ( at most 2 red)
