Algebra 2 Fourth Quarter Benchmark Test

Number	State Standard	Textbook Section
1	**2.0** Students solve systems of linear equations and inequalities (in two or three variables) by substitution, with graphs, or with matrices.	9-9
2	**15.0** Students determine whether a specific algebraic statement involving rational expressions, radical expressions, or logarithmic or exponential functions is sometimes true, always true, or never true.	5-9
3	**15.0** Students determine whether a specific algebraic statement involving rational expressions, radical expressions, or logarithmic or exponential functions is sometimes true, always true, or never true.	5-9
4	**18.0** Students use fundamental counting principles to compute combinations and permutations.	15-5
5	**18.0** Students use fundamental counting principles to compute combinations and permutations.	15-5
6	**19.0** Students use combinations and permutations to compute probabilities.	PS1-PS2
7	**PS 1.0** Students know the definition of the notion of *independent events* and can use the rules for addition, multiplication, and complementation to solve for probabilities of particular events in finite sample spaces.	PS1-PS2
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9	**PS 1.0** Students know the definition of the notion of *independent events* and can use the rules for addition, multiplication, and complementation to solve for probabilities of particular events in finite sample spaces.	PS1-PS2
10	**PS 2.0** Students know the definition of conditional probability and use it to solve for probabilities in finite sample spaces.	PS1-PS2