Conditional Probability Quick Quiz

I. The following questions refer to a drawn card from a standard 52 card deck.

P(7 of spades) =

P(7 of spades|spade) =

P(7 of spades|seven) =

P(7 of spades|black card) =

Are "Kings" and "diamonds" independent?

Are "Kings" and "face cards" independent?

II.

	Freshmen	Sophomores	Juniors	Seniors	Totals
Algebra	52	32	16	0	100
Geometry	28	44	20	6	98
Trigonometry	17	20	59	20	116
Calculus	3	11	19	53	86
Totals	100	107	114	79	400

What is the probability that a randomly chosen student is a senior?

What is the probability that a random junior is taking calculus?

What is the probability that a senior is taking geometry?

What is the probability that a geometry student is a senior?

P(Calculus) =

P(freshmen or sophomore) =

P(geometry and trigonometry) =

P(senior|algebra) =

P(freshman|trigonometry) =

P(trigonometry|freshman) =