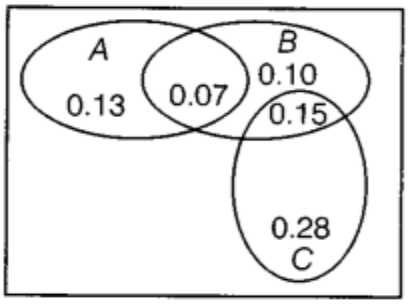
	BCM SCHOOL BASANT AVENUE LUDHIANA ASSIGNMNT CLASS XI(MATHS)
1	Show that $\lim_{x\to 0} \frac{x}{|x|}$ does not exist.
2	Evaluate $\lim_{x\to a} \frac{\sqrt{a+2x}-\sqrt{3x}}{\sqrt{3a+x}-2\sqrt{x}}$.
3	Show that $\lim_{x\to 4} \frac{\lvert x-4\rvert}{x-4}$ does not exist.
4	Evaluate: $\lim_{x\to a} \frac{(2+x)^{\frac{5}{2}}-(a+2)^{\frac{5}{2}}}{x-a}$
5	Evaluate: $\lim_{x\to 2} \frac{x^2-4}{\sqrt{3x-2}-\sqrt{x+2}}$
6	The accompanying Venn diagram shows three events, A, B, and C, and also the probabilities of the various intersections (for instance, P (A ∩ B) = .07). Determine P(A ∪ B), P(B ∩ C), probability of exactly one of the three event occurs. 
7	A die is loaded in such a way that each odd number is twice as likely to occur as each even number. Find P(G), where G is the event that a number greater than 3 occurs on a single roll of the die.
8	A bag contains 8 red and 5 white balls. Three balls are drawn at random. Find the Probability that (a) All the three balls are white (b) All the three balls are red (c) One ball is red and two balls are white
9	A team of medical students doing their internship have to assist during surgeries at a city hospital. The probabilities of surgeries rated as very complex, complex, routine, simple or very simple are respectively, 0.15,0.20, 0.31, 0.26, .08. Find the probabilities that a particular surgery will be rated (a) complex or very complex; (b) neither very complex nor very simple; (c) routine or complex (d) routine or simple