

21	For what values of k will the following pair of linear equations have infinitely many solutions? $kx + 3y - (k - 3) = 0$ $12x + ky - k = 0$	2
22	In the figure, altitudes AD and CE of ΔABC intersect each other at the point P. Show that: (i) $\Delta ABD \sim \Delta CBE$ (ii) $\Delta PDC \sim \Delta BEC$ [OR] In the figure, $DE \parallel AC$ and $DF \parallel AE$. Prove that $\frac{BF}{FE} = \frac{BE}{EC}$	2
23	Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle.	2
24	If $\cot \theta = \frac{7}{8}$, evaluate $\frac{(1 + \sin \theta)(1 - \sin \theta)}{(1 + \cos \theta)(1 - \cos \theta)}$	2
25	Find the perimeter of a quadrant of a circle of radius 14 cm.	2
	[OR] Find the diameter of a circle whose area is equal to the sum of the areas of the two circles of radii 24 cm and 7 cm.	
Section C		
Section C consists of 6 questions of 3 marks each.		
26	Prove that $\sqrt{5}$ is an irrational number.	3
27	Find the zeroes of the quadratic polynomial $6x^2 - 3 - 7x$ and verify the relationship between the zeroes and the coefficients.	3
28	A shopkeeper gives books on rent for reading. She takes a fixed charge for the first two days, and an additional charge for each day thereafter. Latika paid Rs 22 for a book kept for six days, while Anand paid Rs 16 for the book kept for four days. Find the fixed charges and the charge for each extra day. [OR] Places A and B are 100 km apart on a highway. One car starts from A and another from B at the same time. If the cars travel in the same direction at different speeds, they meet in 5	3

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