Centum Preparation 100 Days plan class 12 Maths

Q. No.	DAY - 6
26	EXERCISE 1.4
	3. A chemist has one solution which is 50% acid and another solution
	which is 25% acid. How much each should be mixed to make 10 litres
	of a 40% acid solution? (Use Cramer's rule to solve the problem)
27	4. A fish tank can be filled in 10 minutes using both pumps A and B
	simultaneously. However, pump B can pump water in or out at the
	same rate. If pump B is inadvertently run in reverse, then the tank
	will be filled in 30 minutes. How long would it take each pump to
	fill the tank by itself? (Use Cramer's rule to solve the problem).
28	Example 1.27
	Solve the following system of linear equations,
	by Gaussian elimination method :
	4x + 3y + 6z = 25, $x + 5y + 7z = 13$, $2x + 9y + z = 1$.
29	Example 1.28
	The upward speed $v(t)$ of a rocket at time t is approximated by
	$v(t) = at^2 + bt + c$, $0 \le t \le 100$ where a, b , and c are constants. It has
	been found that the speed at times $t = 3, t = 6$, and $t = 9$ seconds
	are respectively, 64, 133, and 208 miles per second respectively.
	Find the speed at time $t = 15$ seconds.
	(Use Gaussian elimination method.)

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30	EXERCISE 1.5
	2. If $ax^2 + bx + c$ is divided by $x+3, x-5$, and $x-1$, the
	remainders are 21,61 and 9 respectively. Find a, b and c .
	(Use Gaussian elimination method.)
31	3. An amount of ₹ 65,000 is invested in three bonds at the rates of 6%, 8%
	and 9 % per annum respectively. The total annual income is ₹ 4,800.
	The income from the third bond is ₹ 600 more than that from the
	second bond. Determine the price of each bond. (Use Gaussian
	elimination method.)
	End of Chapter - 1