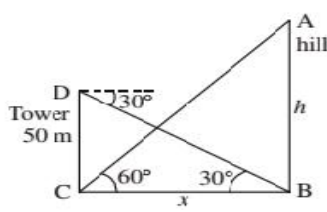
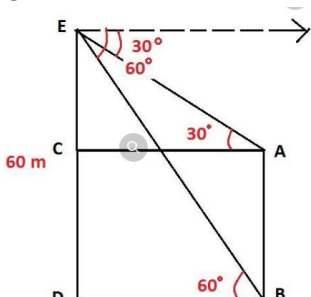




S.NO	MCQ
1	(b) $k \neq -10$
2	(d) more than three
3	(c) 58cm
4	(b) 90°
5	(b) - 8
6	(b) $3x - \frac{5}{x} = x^2$
7	(a) parallel
8	(d) 100°
9	(a) 4 units
10	(a) 4
	VSA-I
11	$K = \frac{1}{3}$
12	9
13	$x = \frac{3}{5}$
14	45°
15	0
16	60
17	80°
18	7.6 cm
19	- 9
20	520
	SA-I
21	Proof
22	$\frac{93}{149}$ OR 0
23	$b^2 - 4ac = (4\sqrt{3})^2 - (4 \times 4 \times 3) = 0$ Hence two equal real roots
24	Modal life time = 65.625 hours
25	Ratio is 5:1 OR Formula for area of triangle Substitution and proving area as 0
26	From the last $A = 126$ and $D = - 2$ $A_{10} = A + 9D = 126 + 9(-2) = 108$
27	65 th term
28	Let $a_n = 184$ $a + (n - 1)d = 184$ $3 + (n - 1)4 = 184$ $n = 46\frac{1}{2}$ and $\therefore 184$ is not a term of the A. P.
	SA-II
29	$x = 4$ and $y = 9$ OR Number = 36

30	<p>Zeroes are -2 and $2/5$</p> <p>Sum of zeroes $= -2 + 2/5 = -8/5 = -b/a$ Product of zeroes $= -2 \times 2/5 = -4/5 = c/a$, hence verified.</p>
31	Proofs of the questions
32	Proof
33	AM = 145.2
34	Proof
35	Proof
36	$S_n = n^2$ OR No. of terms = 12
37	Proof
38	<p>$AB = \sqrt{17}$ units, $BC = \sqrt{2}$ units, $CA = \sqrt{17}$ units and $DA = \sqrt{2}$ units</p> <p>Opposite sides $AB = CA$ and $BC = DA$ and hence parallelogram</p>
39	<p>$PQ = OR = RS = SP = \sqrt{26}$ units</p> <p>All sides equal and hence a rhombus</p>
40	Proof
	LA
41	Solution is $x = 2$ and $y = 4$
42	<p>Division and getting quotient as $x + 3$ and remainder as $x + 3$</p> <p>Negative of the remainder to be added ($-x - 3$)</p>
43	Proofs of the questions
44	 <p>Height of the hill = 150 m</p> <p>OR</p>  <p>Height of the tower is 40 m</p>
45	<p>Let the numbers be x and $x + 2$</p> $x^2 + (x + 2)^2 = 394$ <p>\Rightarrow the numbers are 13 & 15</p>
46	$x = 8$ and $y = 10$
47	<p>Let the numbers be x and $x + 2$</p> $x^2 + (x + 2)^2 = 340$ <p>\Rightarrow the numbers are 12 and 14</p>
48	<p>Let the numbers be x and $x + 1$</p> $x^2 + (x + 1)^2 = 421$ <p>\Rightarrow the numbers are 14 and 15</p>