

3.7 ANSWERS KEY

(Objective 3.1)

Que.	1	2	3	4	5	6	7	8	9	10
Ans.	D	A	B	D	D	A	C	D	A	D

(Subjective 3.2)

1. $x = 9, y = 6$
2. $x = 0.1, y = 0.3$
3. $x = \frac{10\sqrt{5} - 7\sqrt{10}}{72}, y = \frac{2\sqrt{15} + 6\sqrt{10}}{72}$
4. $x = 0.6, y = 1.5$
6. $a = 5, b = 1$
7. (i) $x = -2, y = -3$ (ii) $x = -1, y = -2$
8. $x = -a, y = b$
9. $x = \frac{2}{3}, y = \frac{2}{5}$
10. $x = 3, y = -2, x = 1$
11. $x = \frac{q + r(p+q)}{p^2 + q^2}, y = \frac{r(q-p) - p}{p^2 + q^2}$
12. (a) k is any real number (b) $k = 41$
13. (a) $k = 6$ (b) $k = 4$
14. (a) $k = -4$ (b) $C = -6$
15. $x = a + b, y = -\frac{2ab}{a+b}$
16. $x = 1, y = 2$

(Objective 3.3)

Que.	1	2	3	4	5
Ans.	B	A	D	A	D

(Subjective 3.4)

1. $3/10$
2. 75
3. One boy can do in 120 days and one man can do in 20 days.
4. No. 's are 12 and 6
5. $A = 70^0, B = 53^0, C = 110^0, D = 127^0$
6. $x = 4, y = 3$, Point of contact with x - axis $(0, 11), (0, -1)$
7. $(-4, 2), (1, 3), (2, 5)$
8. 37.5 Square units.
9. Chair = Rs. 600, Tables = Rs. 700
10. 5 rupees notes = 40 & 10 rupees notes = 30
11. $(0, 5)$ vertices $(0, 5), (-6, 0), (4, 0)$
12. 57
13. $x = -4, y = 3$, Lines meets x -axis at $(-2, 0)$ & $(4, 0)$
14. 34 sheep, Rs 1400