

1. infinitely many sols (C)
2. Natural numbers (A) [only sol $x=y=1$]
3. $(2,0)$ is solution of $2x+3y=k$
 $\therefore 2 \times 2 + 3 \times 0 = k$
 $\Rightarrow k=4$ (A)
4. $(-\frac{9}{2}, m)$ (A)
5. given eqns cuts y axis at
 $2 \times 0 + 3y = 6$ [Put $x=0$]
 $\Rightarrow 3y = 6$
 $\Rightarrow y = 2$
 $(0, 2)$ (D)
6. $x=7$
 $\Rightarrow 1x + 0y = 7$ (B)
7. $(x, 0)$ (C)
8. (a, a) (A)
9. $(y, 0)$ (B)
10. Parallel to x axis and at a distance 6 units from the origin (A)
11. $x+y=7$ (C)
12. $x+y=0$ (B)
13. first quadrant (A)
14. Put $y=0$
 $2x + 3 \times 0 = 6$
 $\Rightarrow 2x = 6$
 $\Rightarrow x = 3$
 $(3, 0)$ (C)
15. $(1, 1)$ (C)
16. remains the same (B)
17. Infinitely many (C)
18. $y=x$ (C)
19. $x+y=0$ (D)