

CBSE 2019

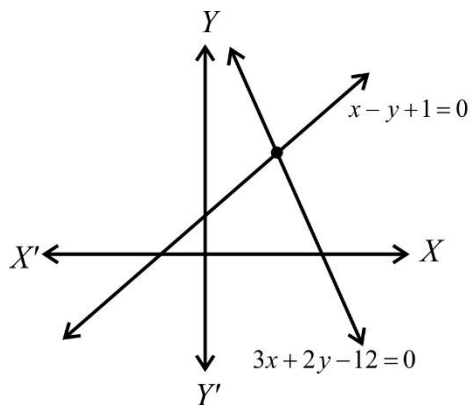
MATHEMATICS

(SET-1)

(Answer Key)

1. -124
2. After 4 decimal places OR $429 = 3 \times 11 \times 13$
3. 330
4. ± 3
5. $2\sqrt{a^2 - b^2}$
6. $\tan \theta = \frac{5}{9}$ OR $\sec \alpha = \frac{13}{12}$
7. $a = 6, b = 3$ OR $P\left(\frac{-4}{3}, \frac{8}{3}\right), Q\left(\frac{-2}{3}, \frac{16}{3}\right)$
8. $x = \frac{9}{13}, y = \frac{-5}{13}$
9. 2 OR 360 cm
10. (i) $\frac{2}{6}$ (ii) $\frac{3}{6}$
11. To prove
12. $\frac{5}{34}$
13. To prove OR To prove
14. No
15. 1 square units

16.



$x = 2, y = 3$

17. To prove OR 625

18. (i) To prove

OR $A = \left(\frac{75}{2}\right)^\circ, B = \left(\frac{15}{2}\right)^\circ$

(ii) 1

19. $\frac{20}{3} \text{ cm}$

20. 562500 m^2

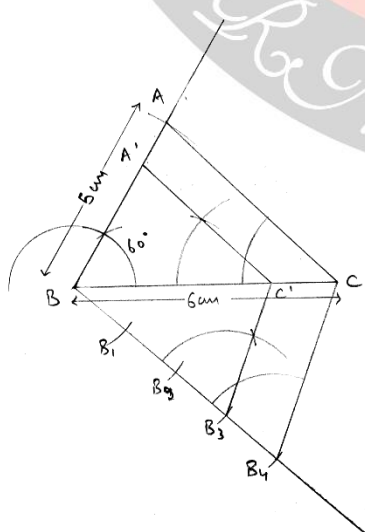
21. 14.1 days

22. 924 cm^2

23. Yes, distances are 5m and 12m from the gates.

24. To prove OR 2, 6, 10 or 15, 6, -3

25.



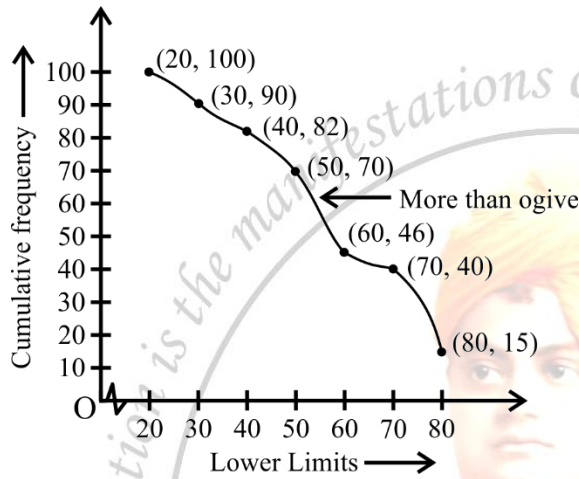
$A'BC'$ is the required triangle.

26. (a) 229.86 cm^2 OR Height = 15 cm, Area of sheet = 2160.32 cm^2
 (b) 235.404 cm^3

27 To prove OR To prove

28. To prove

29.



30. 34.64 m

