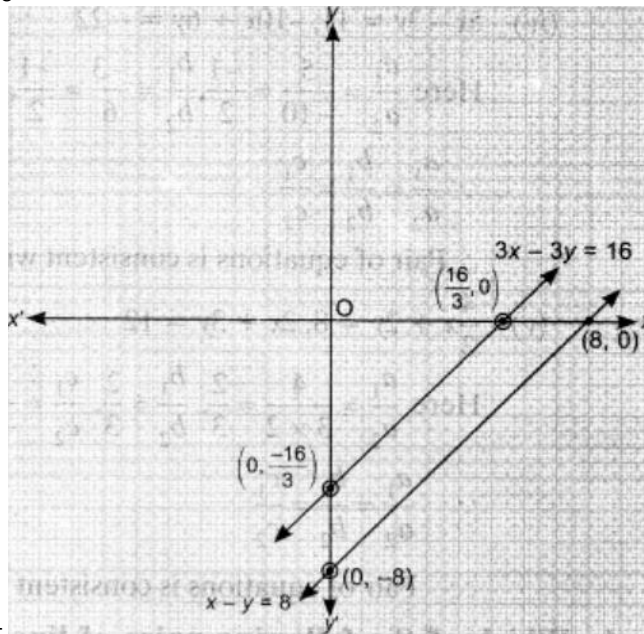


**MARKING SCHEME SQP-3
MATHEMATICS (STANDARD)
2020-21
CLASS X**

1. $0.\overline{142857}$ OR $2^2 \cdot 5 \cdot 7$
2. 22338
3. $2x^2 + x - 528 = 0$



4. Inconsistent
5. $D=0$ real and equal OR $D>0$ and $k > +2\sqrt{6}$ $k < -2\sqrt{6}$
6. 28, 2
7. 245 OR $\frac{7}{3}$
8. $2\sqrt{a^2 + b^2}$
9. Non collinear $AB+BC \neq AC$ or PQR Is isosceles triangle
10. BPT OR 55
11. 1.8
12. 7cm
13. BD
14. 0
15. 36
16. $\frac{1}{\sqrt{1+\cot^2 A}}$
17. (a) ii (b) i (c) iv (d) iv (e) iv
18. (a) ii (b) ii (c) iv (d) i (e) iv
19. (a) i (b) i (c) ii (d) i (e) iv
20. (a) i (b) ii (c) iii (d) i (e) iv
21. 40 or -45
22. Proof OR proof
23. proof OR proof
24. 16, $\frac{8}{3}$

25. $1/6, 1/2$

26. 7.025

27. $x=4, y=5$ OR $x=4, y=9$

28. 12 OR 1661

29. $X=3$ or $4/3$

30. (3,-2)

31. Proof

32. 60cm

33. Proof

34. $28.5 \text{ cm}^2, 285.5 \text{ cm}^2$

35. 1263.15

36. 100 OR 346.51 cm^3