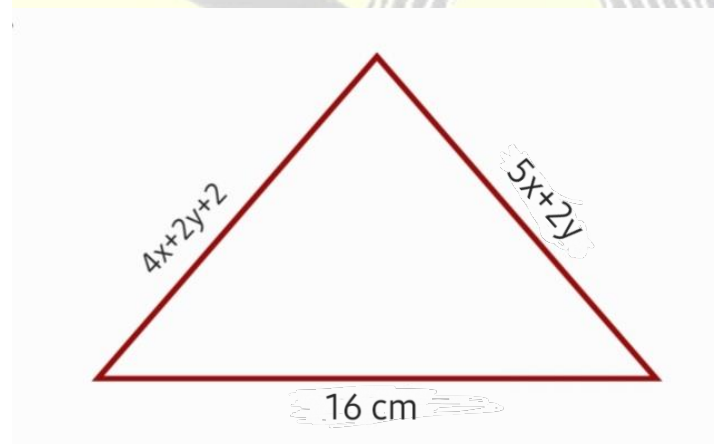


Q.1 Solve the following simultaneous equation –

$$7x - 5y = 50$$

$$3x + 2y = 9 \quad (3)$$

Q.2



An equilateral triangle is given above. Find the value of x and y

(4)

Q.3 Two straight lines with following equations –

$$px + 3y = 5 \text{ and}$$

$$4x - 4y = 12$$

meet at a point. The x coordinate of the intersecting point is 4,
then find the value of p. (2)

Q.4 Solve these simultaneous equations algebraically –

$$y = 4x^2 - 7x + 3$$

$$2x - 2y = -6 \quad (4)$$

Q.5 First 3 terms of an arithmetic series is given as

$$2x + 3y \quad 4x + 4y \quad 6y + 4x$$

The common difference of this series is 4.

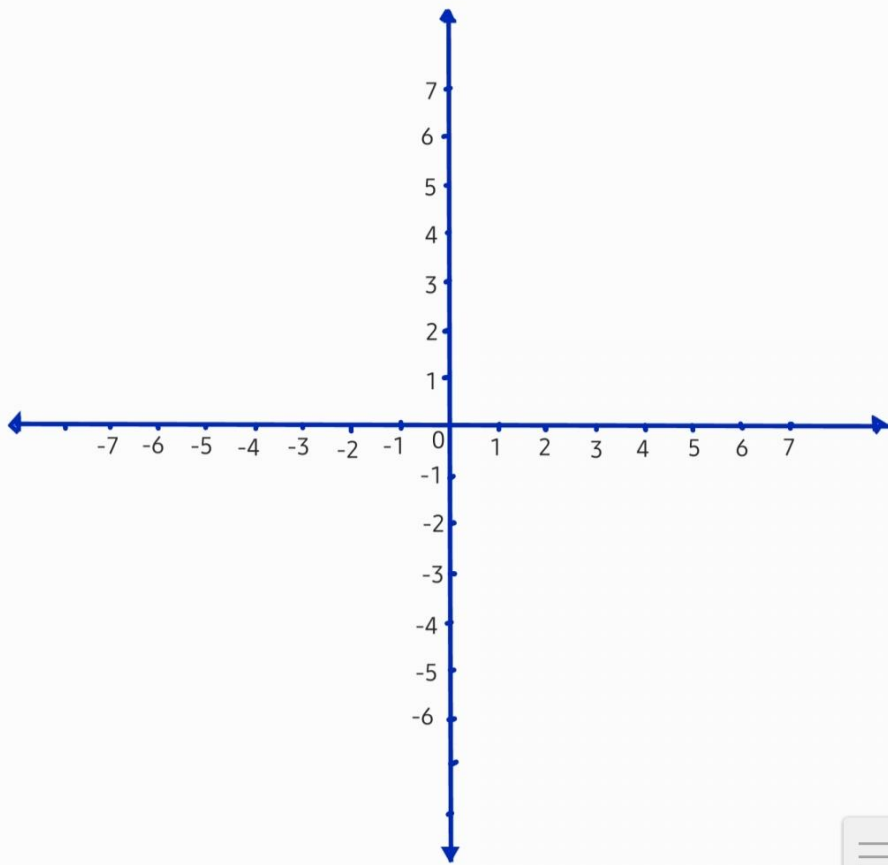
Then find all 3 terms of this series. (5)

Q.6 In a class there are certain number of boys and certain number of girls.

If 2 girls are added to the class total number of students will be 2 times the number of boys.

And if 18 boys are added to the original class, then total number of student will become 3 times the original number of girls (4)

Q.7



Solve the following simultaneous equations graphically.

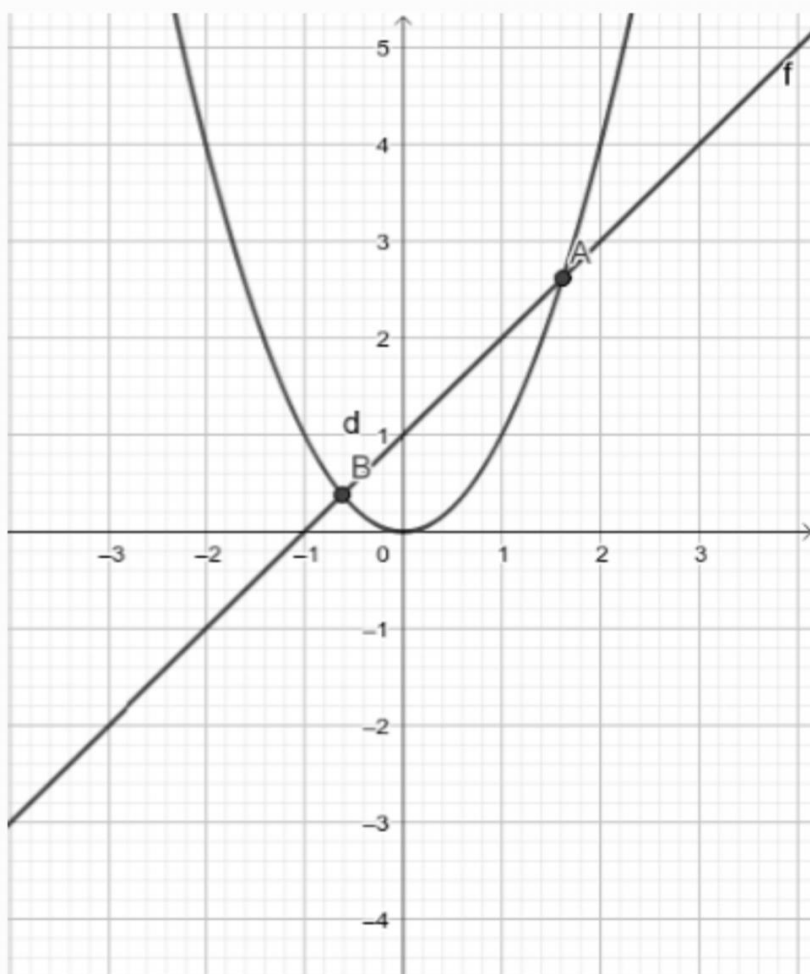
$$2x + 3y = 10$$

$$3x + 2y = 5 \quad (5)$$

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Q.8 Find the estimated solutions of the graph –

(2)



Q.9 A parabola with equation $y = 7x^2 + 3x - 2$ is intersected by a straight line $y = 17x - 9$. Prove that this straight line is tangent to this curve. (5)

Q.10 A man covers a distance of 20 km in $x - y$ hour with a speed of $x + y$ km/hr.

Then covers a distance of 95 km in $2x - y$ hour with a speed of $2x + y$ km/hr.

Then find the value of x and y . (5)
