

# THIRD REVISION TEST - 2025

## Standard X

 Reg.No. 

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## MATHEMATICS

Time : 3.00 hrs

Part - I

Marks : 100

I. Choose the correct answer:

14 x 1 = 14

1. If there are 1024 relations from a set  $A = \{1,2,3,4,5\}$  to a set B, then the number of elements in B is \_\_\_\_\_.  
 a) 3                      **b) 2**                      c) 4                      d) 8
2. If  $f : A \rightarrow B$  is a bijective function and if  $n(B) = 7$ , then  $n(A)$  is equal to \_\_\_\_\_.  
**a) 7**                      b) 49                      c) 1                      d) 14
3. If the HCF of 65 and 117 is expressible in the form of  $65m - 117$ , then the value of m is \_\_\_\_\_.  
 a) 4                      **b) 2**                      c) 1                      d) 3
4. If the sequence  $t_1, t_2, t_3, \dots$  are in A.P. then the sequence  $t_6, t_{12}, t_{18}, \dots$  is \_\_\_\_\_.  
 a) a geometric progression                      **b) an arithmetic progression**  
 c) neither an A.P nor a G.P                      d) a constant sequence
5. Find the matrix X if  $2X + \begin{pmatrix} 1 & 3 \\ 5 & 7 \end{pmatrix} = \begin{pmatrix} 5 & 7 \\ 9 & 5 \end{pmatrix}$   
 a)  $\begin{pmatrix} -2 & -2 \\ 2 & -1 \end{pmatrix}$                       **b)  $\begin{pmatrix} 2 & 2 \\ 2 & -1 \end{pmatrix}$**                       c)  $\begin{pmatrix} 1 & 2 \\ 2 & 2 \end{pmatrix}$                       d)  $\begin{pmatrix} 2 & 1 \\ 2 & 2 \end{pmatrix}$
6. The solution of  $(2x - 1)^2 = 9$  is equal to \_\_\_\_\_.  
 a) -1                      b) 2                      **c) (-1,2)**                      d) None of the above
7. A tangent is perpendicular to the radius at the \_\_\_\_\_.  
 a) Centre                      **b) Point of contact**                      c) Infinity                      d) Chord
8. The area of a triangle formed by the points  $(-5,0)$   $(0,-5)$  and  $(5,0)$  is  
 a) 0 sq.units                      **b) 25 sq.units**                      c) 5 sq.units                      d) None of these
9. The value of  $\sin^2 \theta + \frac{1}{1 + \tan^2 \theta}$  is \_\_\_\_\_.  
 a)  $\tan^2 \theta$                       **b) 1**                      c)  $\cot^2 \theta$                       d) 0
10. If the radius of the cylinder is doubled, the new volume of the cylinder will be \_\_\_\_\_ times the original volume.  
 a) same                      b) 3                      **c) 4**                      d) 2

11. The height of a right circular cone whose radius is 5 cm and slant height is 13 cm is  
 a) 12 cm      b) 10 cm      c) 13 cm      d) 5 cm
12. Two poles of height 6 m and 11 m stand vertically on a plane ground. If the distance between their feet is 12 m, what is the distance between their tops?  
 a) 13 m      b) 14 m      c) 15 m      d) 12.8 m
13. If the standard deviation of  $x, y, z$  is  $P$ , then the standard deviation of  $3x+5, 3y+5, 3z+5$  is \_\_\_\_\_.  
 a)  $3P + 5$       b)  $3P$       c)  $P + 5$       d)  $9P + 15$
14. Kamalam went to a play a lucky draw contest. 135 tickets of the lucky draw were sold. If the probability of Kamalam winning is  $\frac{1}{9}$ , then the number of tickets bought by Kamalam is \_\_\_\_\_.  
 a) 5      b) 10      c) 15      d) 20

## Part - II

II. Answer any 10 questions. (Q.No.28 is compulsory)

10 x 2 = 20

15. If  $B \times A = \{(-2,3) (-2,4) (0,3) (0,4) (3,3) (3,4)\}$  then find A and B
16. A relation  $f$  is defined by  $f(x) = x^2 - 2$  where  $x \in \{-2, -1, 0, 3\}$  (i) List the elements of  $f$ .  
 (ii) Is  $f$  a function?
17. Find the sum of the series  $3 + 1 + \frac{1}{3} + \dots \infty$
18. Find the number of terms in an A.P 3, 6, 9, 12, ..... 111
19. Find the LCM of  $-9a^3b^2, 12a^2b^2c$
20. If  $A = \begin{bmatrix} \sqrt{7} & -3 \\ -\sqrt{5} & 2 \\ \sqrt{3} & -5 \end{bmatrix}$  then find the transpose  $-A$
21. The perimeter of two similar triangles ABC and PQR are respectively 36 cm and 24 cm. If  $PQ = 10$  cm, find AB
22. Prove that  $\sec\theta - \cos\theta = \tan\theta \sin\theta$
23. Find the angle of elevation of the top of a tower from a point on the ground, which is 30 m away from the foot of the tower of height  $10\sqrt{3}$  m.
24. If the total surface area of a cone of radius 7 cm is  $704 \text{ cm}^2$ , then find its slant height.
25. If the circumference of a conical wooden piece is 484 cm, then find its volume when its height is 105 cm.

www.Padasalai.Net  
 $m = \tan \theta$   
 $m = \tan 45^\circ$   
 $m = 1$

www.TrbTnpSC.com  
 $y = mx + c$      $m = 1$   
 $y = x + c$   
 Drawing straight line 2 = 1 + c    Maths  
 $c = 3$

26. Find the range and co-efficient of range for 63, 89, 98, 125, 79, 108, 117, 68  
 27. In a leap year, find the probability of getting 53 Saturdays.  
 28. Find the equation of a straight line passing through the point (-1,2) and whose angle of inclination is  $45^\circ$

$y = x + 3$

Part - III

III. Answer any 10 questions. (Q.No.42 is compulsory) 10 x 5 = 50

29. If  $A = \{1,2,3\}$ ,  $B = \{2,3,5\}$ ,  $C = \{3,4\}$ ,  $D = \{1,3,5\}$ , then prove that  
 $(A \cap C) \times (B \cap D) = (A \times B) \cap (C \times D)$

30. A function  $f : [-5, 9] \rightarrow \mathbb{R}$  is defined as  $f(x) = \begin{cases} 6x+1 & \text{if } -5 \leq x < 2 \\ 5x^2 - 1 & \text{if } 2 \leq x < 6 \\ 3x - 4 & \text{if } 6 \leq x \leq 9 \end{cases}$ , find

i)  $2f(4) + f(8)$     ii)  $\frac{2f(-2) - f(6)}{f(4) + f(-2)}$

31. Determine the general term of an A.P whose 7<sup>th</sup> term is -1 and 16<sup>th</sup> term is 17  
 32. If  $x^4 - 8x^3 + mx^2 + nx + 16$  is a perfect square, then find the value of m and n  
 33. A bus covers a distance of 90 km at a uniform speed. Had the speed been 15 km/hour more it would have taken 30 minutes less for the journey. Find the original speed of the bus.  
 34. Show that the angle bisector of a triangle are concurrent.  
 35. Find the area of the quadrilateral formed by the points (8,6) (5,11) (-5,12) and (-4,3).  
 36. Find the equation of a straight line through the intersection of lines  $7x + 3y = 10$ ,  $5x - 4y = 1$  and parallel to the line  $13x + 5y + 12 = 0$   
 37. If  $\cos \theta + \cot \theta = P$ , then prove that  $\cos \theta = \frac{P^2 - 1}{P^2 + 1}$   
 38. The angle of elevation of the top of a cell phone tower from the foot of a high apartment is  $60^\circ$  and the angle of depression of the foot of the tower from the top of the apartment is  $30^\circ$ . If the height of the apartment is 50 m, find the height of the cell phone tower. According to the radiation control norms, the minimum height of the cell phone tower should be 120 m. State if the height of the above mentioned cell phone tower meets the radiation norms.  
 39. A right circular cylinder container of base radius 6 cm and height 15 cm is full of ice-cream. The ice-cream is to be filled in cones of height 9 cm and a base radius 3 cm, having a hemispherical cap. Find the number of cones needed to empty the container.

40. A container open at the top is in the form of a frustrum of a cone of height 16 cm with radii of its lower and upper ends are 8 cm and 20 cm respectively. Find the cost of milk which can completely fill a container at the rate of ₹40 per litre.
41. Three unbiased coins are tossed. Find the probability of getting atmost 2 tails or atleast 2 heads.
42. Find the mean and variance of the first n natural numbers.

## Part - IV

## IV. Answer all the questions.

2 x 8 = 16

- 43.a) A school announces that for a certain competition the cash price will be distributed for all the participants equally as shown below :

No. of participants (x)	2	4	6	8	10
Amount for each participant in ₹ (y)	180	90	60	45	36

- i) Find the constant of variation  
 ii) How much each participant will get if the number of participants are 12

(OR)

- b) Draw the graph for  $y = x^2 + 3x - 4$  and hence solve  $x^2 + 3x - 4 = 0$

44. a) Construct a triangle similar to a given triangle ABC with its sides equal to  $\frac{6}{5}$  of the corresponding sides of the triangle ABC. (Scale factor  $\frac{6}{5}$ )

(OR)

- b) Take a point which is 11 cm away from the centre of a circle of radius 4 cm and draw the two tangents of the circle from that point.

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## Third Revision Test 2025

I choose the correct answer 17)  $a=3$   $r = \frac{t_2}{t_1} = \frac{1}{3}$ 

1. b) 2

2. a) 7

3. b) 2

4. b) an arithmetic Progression  $d = 111$ .

5. b)  $\begin{pmatrix} 2 & 2 \\ 2 & -1 \end{pmatrix}$

6. c)  $(-1, 2)$

7. b) point of Contact

8. b) 25 sq. units.

9. b) 1

10. c) 4

11. a) 12 cm

12. a) 13 m

13. b) 3 p

14. c) 15

$$S_{\infty} = \frac{a}{1-r} = \frac{3}{1-\frac{1}{3}} = \frac{9}{2}$$

18)  $a=3$   $d = b-3 = 3$

$$n = \left( \frac{l-a}{d} \right) + 1 = \left( \frac{111-3}{3} \right) + 1$$

$$= 37.$$

 $\therefore$  Ap contains 37 terms.

19)  $-9a^3b^2 = -3^2 \times a^3 \times b^2$

$$12a^2b^2c = 4 \times 3 \times a^2 \times b^2 \times c$$

LCM :  $-4 \times 9 \times a^3 \times b^2 \times c$

$$= -36a^3b^2c$$

20)  $-A^T = \begin{bmatrix} -\sqrt{7} & \sqrt{5} & -13 \\ 3 & -2 & 5 \end{bmatrix}$

## Part II.

II Two Marks.

15.  $A = \{3, 4\}$

$B = \{-2, 0, 3\}$

16. (i)  $f(x) = x^2 - 2$

$f(-2) = (-2)^2 - 2 = 2$

$f(-1) = (-1)^2 - 2 = -1$

$f(0) = (0)^2 - 2 = -2$

$f(3) = (3)^2 - 2 = 7$

$\therefore f = \{(-2, 2), (-1, -1), (0, -2), (3, 7)\}$

(ii)  $f$  is a function.21)  $\Delta ABC \sim \Delta PQR$ .

$$\frac{AB}{PQ} = \frac{BC}{QR} = \frac{AC}{PR} = \frac{36}{24}$$

$$\frac{AB}{PQ} = \frac{36}{24} \Rightarrow \frac{AB}{10} = \frac{36}{24}$$

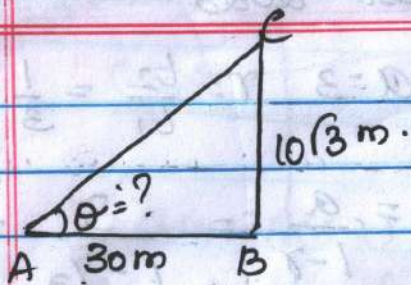
$$AB = \frac{36 \times 10}{24} = 15 \text{ cm}$$

22)  $= \frac{1}{\cos \theta} - \cos \theta \Rightarrow \frac{1 - \cos^2 \theta}{\cos \theta}$

$$= \frac{\sin^2 \theta}{\cos \theta} = \frac{\sin \theta}{\cos \theta} \cdot \sin \theta$$

$$= \tan \theta \cdot \sin \theta$$

23)



$$AB = 30m \quad BC = 10\sqrt{3}m$$

$$\tan \theta = \frac{\text{Opp side}}{\text{adj side}} = \frac{BC}{AB}$$

$$= \frac{10\sqrt{3}}{30} = \frac{\sqrt{3}}{3}$$

$$\tan \theta = \frac{1}{\sqrt{3}}$$

$$\theta = 30^\circ$$

$$24. \quad r = 7cm \quad TSA = 704cm^2$$

$$TSA \text{ of a cone} = \pi r(l+r) \text{ sq.}$$

$$704 = \frac{22}{7} \times 7(l+7)$$

$$\frac{704}{22} = l+7 \Rightarrow 32 = l+7$$

$$l = 25cm$$

25. Circumference of the base of the Cone = 484cm

$$h = 105cm$$

$$2\pi r = 484$$

$$r = 484 \times \frac{1}{2} \times \frac{7}{22}$$

$$r = 77cm$$

$$\text{Volume of a cone} = \frac{1}{3} \pi r^2 h$$

$$= \frac{1}{3} \times \frac{22}{7} \times 77^2 \times 105$$

$$= 652190cm^3$$

$$26. \quad R = L - S = 125 - 63 = 62$$

$$\text{Cost of } R = \frac{1}{3} \times \frac{62}{100} = 0.2066$$

27) A leap year = 366 days.

$$\text{full week} = \text{Saturdays} = 52$$

$$\text{Remaining} = 2 \text{ days.}$$

$$S = \{ \text{Sun, Mon}, \text{Mon Tue}, \text{Tue Wed} \}$$

$$\{ \text{Wed, Thu}, \text{Thu - Fri}, \text{Fri - Sat} \}$$

$$\{ \text{Sat - Sun} \}$$

$$n(S) = 7$$

P (getting 53<sup>rd</sup> Saturday).

$$A = \{ \text{Fri - Sat}, \text{Sat - Sun} \}$$

$$n(A) = 2$$

$$P(A) = \frac{n(A)}{n(S)} = \frac{2}{7}$$

$$28) \quad m = \tan \theta = \tan 45^\circ = 1$$

$$y = mx + c \quad (-1, 2)$$

$$2 = (1)(-1) + c$$

$$2 + 1 = c$$

$$c = 3$$

$$y = x + 3 \Rightarrow x - y + 3 = 0$$

Part III

$$\text{III. 29) } A = \{1, 2, 3\} \quad B = \{2, 3, 5\}$$

$$C = \{3, 4\} \quad D = \{1, 3, 5\}$$

$$\text{LHS } A \cap C = \{3\} \quad B \cap D = \{3, 5\}$$

$$(A \cap C) \times (B \cap D) = \{(3, 3), (3, 5)\}$$

$$\text{RHS } A \times B = \{(1, 2), (1, 3), (1, 5), (2, 2), (2, 3), (2, 5), (3, 2), (3, 3), (3, 5)\}$$

$$C \times D = \{(3, 1), (3, 3), (3, 5), (4, 1), (4, 3), (4, 5)\}$$

$$(A \times B) \cap (C \times D) = \{(3, 3), (3, 5)\}$$

$$30) \text{ i) } f(x) = 5(x)^2 - 1 = 79$$

$$2(f(x)) = 2(79) = 158$$

$$f(8) = 3(8) - 4 = 24 - 4 = 20$$

$$2(f(8)) = 2(20) = 40$$

$$ii) f(-2) = 6(-2) + 1 = -11$$

$$2f(-2) = -22.$$

$$f(6) = 3(6) - 4 = 14$$

$$f(4) = 79$$

$$\frac{2f(-2) - f(6)}{f(4) + f(-2)} = \frac{-22 - 14}{79 - 22} = \frac{-36}{57} = -\frac{12}{19}.$$

$$31. t_7 = -1 \quad t_6 = 17$$

$$a + (7-1)d = -1$$

$$a + 6d = -1 \quad \text{--- (1)}$$

$$a + (16-1)d = 17 \Rightarrow a + 15d = 17 \quad \text{--- (2)}$$

$$\text{(1) - (2)} \quad a + 6d = -1$$

$$a + 15d = 17$$

$$-9d = -18 \quad \boxed{d = 2}$$

$$d = 2 \Rightarrow \text{(1)} \Rightarrow a + 6(2) = -1$$

$$a = -13$$

$$\boxed{a = -13}$$

$$\text{General term } t_n = a + (n-1)d$$

$$t_n = -13 + (n-1)2$$

$$= -13 + 2n - 2$$

$$t_n = 2n - 15.$$

$$x^2 - 4x + 4.$$

$$32. \quad x^2 \overline{) 7x^4 - 8x^3 + mx^2 + nx + 16}$$

$$\begin{array}{r} 7x^4 \\ \underline{-7x^4 + 28x^3 - 28x^2 + 16x} \\ 8x^3 - 16x^2 + nx + 16 \end{array}$$

$$2x^2 - 8x + 4 \quad (m-16)x^2 + nx + 16.$$

$$8x^2 + 32x + 16$$

$$\underline{(m-24)x^2 + (n+32)x + 16}$$

$$m - 24 = 0 \quad n + 32 = 0$$

$$m = 24$$

$$n = -32$$

33) Let  $x$  km/hr. be the speed  
time taken to cover 90km =  $\frac{90}{x}$  hrs.  
When speed increased  $\frac{x+15}{15}$  km/hr  
 $= \frac{90}{x+15}$ .

time reduced =  $\frac{1}{2}$  hr.

$$\frac{90}{x} - \frac{90}{x+15} = \frac{1}{2}$$

$$\frac{90(x+15) - 90x}{x(x+15)} = \frac{1}{2}$$

$$x^2 + 15x = 2700.$$

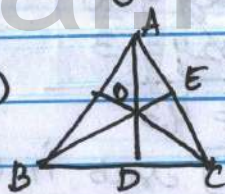
$$x^2 + 15x - 2700 = 0.$$

$$\frac{-15 \pm \sqrt{225 + 10800}}{2} = \frac{90, -120}{2}$$

$$= 45, -60.$$

The original speed 45 km/hr

34)



In  $\triangle ABC$

AD, BE are two angle bisectors

They meet at 'O'

To prove  $\frac{AC}{CD} = \frac{AO}{OD}$

In  $\triangle ABE$   $\frac{AB}{AE} = \frac{BO}{OE}$  also

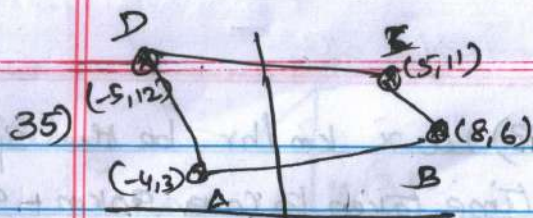
$\frac{AB}{AC} = \frac{BD}{DC}$  (by angle bisector theorem)

$$\therefore \frac{AB}{BD} = \frac{AC}{DC} \quad \text{--- (1)}$$

In  $\triangle ABD$ ,  $\frac{AB}{BD} = \frac{AO}{OD}$  --- (2)

From (1) & (2) we get  $\frac{AC}{DC} = \frac{AO}{OD}$

Hence Proved.



A(-4,3) B(8,6) C(5,11) D(-5,12)

Area of quadrilateral  $\frac{1}{2} \begin{vmatrix} x_1 & x_2 & x_3 & x_4 & x_1 \\ y_1 & y_2 & y_3 & y_4 & y_1 \end{vmatrix}$

$$= \frac{1}{2} \begin{vmatrix} -4 & 8 & 5 & -5 & -4 \\ 3 & 6 & 11 & 12 & 3 \end{vmatrix}$$

$$= \frac{1}{2} \{ (-24 + 88 + 60 - 15) - (24 + 30 - 55 - 48) \}$$

$$= \frac{1}{2} \{ 109 - (-49) \}$$

$$= \frac{1}{2} \{ 158 \} = 79$$

36.  $7x + 3y = 10$  — (1)

$5x - 4y = 1$  — (2)

(1)  $\times 4$  + (2)  $\times 3$

$28x + 12y = 40$

$15x - 12y = 3$

$43x = 43$

$x = 1$  sub in (1)

$7 + 3y = 10 \Rightarrow 3y = 10 - 7$

$y = 1$

The intersecting points (1,1)

$13x + 5y + 12 = 0$   
 $m = -13/5$

The eqn =  $(y-1) = \frac{-13}{5}(x-1)$

$5y - 5 = -13x + 13$

$13x + 5y - 18 = 0$  is the

required eqn.

37.  $\operatorname{cosec} \theta + \cot \theta = p$  — (1)

$\operatorname{cosec}^2 \theta - \cot^2 \theta = 1$

$(\operatorname{cosec} \theta + \cot \theta)(\operatorname{cosec} \theta - \cot \theta) = 1$

$\operatorname{cosec} \theta - \cot \theta = \frac{1}{\operatorname{cosec} \theta + \cot \theta}$

$\operatorname{cosec} \theta - \cot \theta = \frac{1}{p}$  — (2)

Add (1) & (2)

$2 \operatorname{cosec} \theta = \frac{p^2 + 1}{p}$  — (3)

Sub (2) & (3)

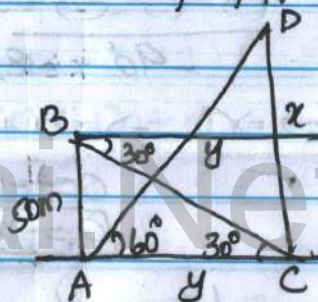
$2 \cot \theta = \frac{p^2 - 1}{p}$  — (4)

dividing (4) & (3)

$\frac{2 \cot \theta}{2 \operatorname{cosec} \theta} = \frac{p^2 - 1}{p} \times \frac{p}{p^2 + 1}$

$\cos \theta = \frac{p^2 - 1}{p^2 + 1}$

(38)



$\Delta ABC \tan 30^\circ = \frac{50}{y}$

$\frac{1}{\sqrt{3}} = \frac{50}{y}$

$y = 50\sqrt{3}$

$\Delta ADC \tan 60^\circ = \frac{x}{50\sqrt{3}}$

$\sqrt{3} = \frac{x}{50\sqrt{3}}$

$50 \times 3 = x = 150$

The height of the tower = 150

150m > 120m Yes,

It meets the graduation

norms.



39. Container }  
Cylinder } = h: 15cm r=6cm

$$V = \pi r^2 h = \frac{22}{7} \times 6 \times 6 \times 15$$

hemisphere r=3cm h=9cm.

cone = r, = 3cm

Volume of one ice cream =

Volume of cone + Volume of hemispherical cap.

$$= \frac{1}{3} \pi r^2 h + \frac{2}{3} \pi r^3$$

$$= \frac{1}{3} \times \frac{22}{7} \times 3 \times 3 \times 9 + \frac{2}{3} \times \frac{22}{7} \times 3 \times 3 \times 3$$

$$= \frac{22}{7} \times 45$$

No of cones =  $\frac{\text{Volume of cylinder}}{\text{Volume of ice cream}}$

$$= \frac{\frac{22}{7} \times 6 \times 6 \times 15}{\frac{22}{7} \times 45} = 12$$

No of cones required 12.

A) S = {HHH, HHT, HTH, THH, TTT, TTH, THT, HTT}

$$n(S) = 8$$

A = atmost 2 tail.

A = {HHH, HHT, HTH, THH, TTH, THT, HTT}

$$n(A) = 7. P(A) = \frac{7}{8}$$

B = atleast 2 head.

B = {HHH, HHT, HTH, THH}

$$n(B) = 4. P(B) = \frac{4}{8}$$

(A ∩ B) = {HHH, HHT, HTH, THH}

$$P(A \cap B) = \frac{4}{8}$$

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

$$= \frac{7}{8} + \frac{4}{8} - \frac{4}{8}$$

$$= \frac{7}{8}$$

10. R=20cm r=8cm h=16cm

Volume of frustum =

$$\frac{1}{3} \pi (R^2 + Rr + r^2) h$$

$$= \frac{1}{3} \times \frac{22}{7} (20^2 + 20 \times 8 + 8^2) 16$$

$$= \frac{1}{3} \times \frac{22}{7} \times 624 \times 16$$

$$= 10459.428 \text{ cm}^3$$

$$10459.428 \text{ cm}^3 = 10.459 \text{ liter}$$

The cost of milk ₹40 per liter

$$= 40 \times 10.459$$

$$= ₹ 418.36$$

$$H2) \bar{x} = \frac{1+2+3+\dots+n}{n} = \frac{n(n+1)}{2n}$$

$$\bar{x} = \frac{n+1}{2}$$

$$\sigma^2 = \frac{\sum x_i^2}{n} - \left(\frac{\sum x}{n}\right)^2$$

$$\sum x_i^2 = 1^2 + 2^2 + 3^2 + \dots + n^2$$

$$(\sum x)^2 = (1+2+3+\dots+n)^2$$

$$\sigma^2 = \frac{n(n+1)(2n+1)}{6n} - \left[\frac{n(n+1)}{2n}\right]^2$$

$$= \frac{2n^2+3n+1}{6} - \frac{n^2+2n+1}{4}$$

$$\sigma^2 = \frac{4n^2+6n+2-3n^2-6n-3}{12} = \frac{n-1}{12}$$

## Part IV.

H3) a) (i)  $k = xy$ .

$$k = 2 \times 180, 4 \times 90, 6 \times 60, 8 \times 45, 10 \times 36$$

$$k = 360.$$

(ii) Participants = 12

$$360 = x \times 12$$

$$x = \frac{360}{12} = 30.$$

b)  $y = x^2 + 3x - 4$       $4 < \frac{-4}{3}$

x	-5	-4	-3	-2	-1	0	1	2
$x^2$	25	16	9	4	1	0	1	4
$3x$	-15	-12	-9	-6	-3	0	3	6
-4	-4	-4	-4	-4	-4	-4	-4	-4
y	6	0	-4	-6	-6	-4	0	6

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

$$0 = x^2 + 3x - 4$$

$$y = 0$$

Plotting points  $(-5, 6)$   $(-4, 0)$   $(-3, -4)$   $(-2, -6)$   $(-1, -6)$   
 $(0, -4)$   $(1, 0)$   $(2, 6)$

The eqn  $y=0$  represents the x axis

Solution  $(-4, 0)$   $(1, 0)$ .

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