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Name : Neelav D Bhatnaga Date : 4/11/17  
 Class : X Board : CBSE Batch : BOS - Vagva Course Code :  
 Subject : Maths Roll No. : 18082 Test ID : CT-4M  
 Marks Obtained : 39/40 Max. Marks : 40  
 Centre : Vagva Invigilator Sign. : [Signature]

Section - A

Q1.  $-1, 3, 7, 11, \dots$   
 $d = 4, a = -1.$

$$a_n = a + (n-1)d$$

$$\therefore 95 = -1 + (n-1)4$$

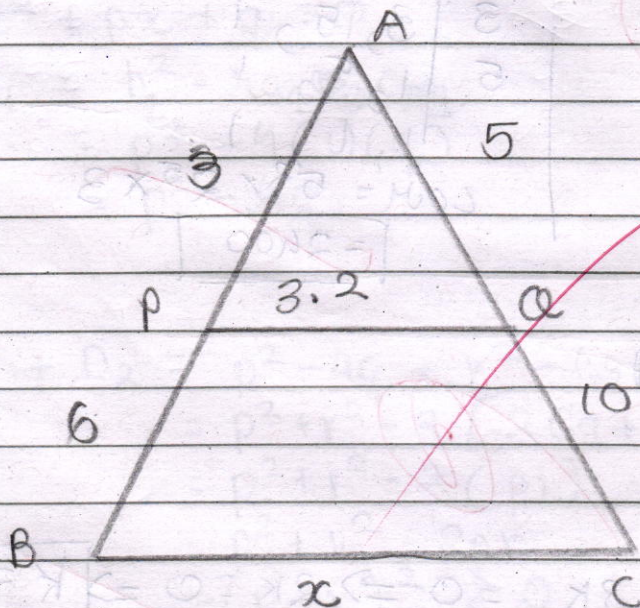
$$96 = 4n - 4$$

$$4n = 100$$

$$n = \frac{100}{4} = 25^{\text{th}} \text{ term}$$

$\therefore 95$  is the  $25^{\text{th}}$  term of the A.P

Q2



Qn  $\triangle APQ$  and  $\triangle ABC$   
 $\angle A = \angle A$  (common)

$$\frac{AP}{AB} = \frac{AQ}{AC} = \frac{1}{3}$$

$\therefore \text{SAS}$

$\triangle APQ \sim \triangle ABC$

$$\therefore \frac{AP}{AB} = \frac{AQ}{AC} = \frac{PQ}{BC}$$

$$\therefore \frac{3.2}{6} = \frac{PQ}{10}$$

$$BC = 3.2 \times 3 = 9.6 \text{ cm}$$