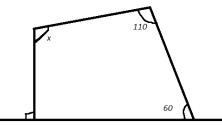
and the second s	THE LAIDLAW	MEMORIAL SCHOOL AND JUNI	OR COLLEGE,
		KETTI	
SELS NELLANCE	ENTRANCE EXAMINATION		
		SUBJECT: MATHEMATICS	
CLASS	: IX	DATE	: / /2022
<b>READING</b> 7	FIME : 5 Mins	TOTAL MARKS	: 25
WRITING 1	TIME : 1 HOUR	NO. OF PAGES	: 02
I Answer the following:			10 X 1 = 10

- 1) Additive inverse of (-2) is\_\_\_\_\_
- 2) Find the multiplicative inverse of 2/3
- 3) Simplify:  $[(2)^{-1} + (4)^{-1} + (3)^{-1}]^{-1}$
- 4) Without adding, find the sum of: 1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19.
- 5) Find the square root of 4489
- 6) Is 729 a perfect cube?
- 7) If A = {3, 6, 9, 12, 15, 18, 21, 24}, B = {0, 4, 8, 12, 16, 20 21}, then find A  $\cap$  B.
- 8) Find the value of 35% of ₹300.
- 9) Compound interest of ₹1000 at 10% p.a. for 2 years is \_\_\_\_\_
- 10) If 8 meters cloth costs ₹250, find the cost of 5 meters of the same cloth.

## **II** Answer the following:

- 1) Add:  $4x^3 7x^2 + 9$ ,  $3x^2 5x + 4$ ,  $7x^3 11x + 1$ ,  $6x^2 13x$ .
- 2) Factorise:  $5xy + 7y 5y^2 7x$ .
- 3) Solve: 7x 8 = 5x + 2.
- 4) Find the angle measure *x* in the following diagram:



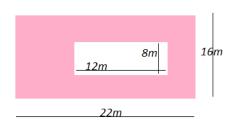
5) Two adjacent sides of a parallelogram are 24cm and 18 cm. If the distance between longer sides is 12 cm, find the distance between shorter sides.

5 X 2 = 10

## III Answer any two of the following:

 $2 \ge 1/2 = 5$ 

- 1) Find six rational numbers between 3 and 4
- 2) Find the area of the shaded region:



3) Three more than twice a number is equal to four less than the number. Find the number.