Exercise 7 (A)

1) i. An intergers, on the given number line is greater than every number in left.

ii. An intergers on the given number line, is greater than every number on it's left.

iii. 2 is greater than -4 implies 2 is on the right of -4.

iv. -3 is less than 2 and 3 is greater than -2

v. -4 is greater than -8 and 4 is less than 8.

vi. 5 is greater than 2 and -5 is less than -2.

vii. -6 is less than 3 and the opposite of -6 is greater than opposite of 3.

viii. 8 is greater than -5 and -8 is less than 5

2) i. -15 , -23

= (-15) lies on the right side of (-23) on the number line.

Therefore, -15 > -23

ii. -12 , 15

= 15 lies on the right side of (-12)

Therefore, 15 > -12

iii. 0, 8

= 8 lies on the right side of 8

Therefore, 8 > 0

iv. 0, -3

= 0 lies on the right side of (-3)

Therefore, 0 > -3

3) i. 0, -6

= (-6) lies on the left side of 0

Therefore, -6 < 0

ii. 2, -3

= -3 lies on the left side of 2

Therefore, -3 < 2

iii. 15, -51

= -51 lies on the left side of 15

Therefore, -51 < 15

iv. 13, 0

= 0 lies on the left side of 13

Therefore, 0 < 13

i

4) i. $3 \geq 0$

ii. $0 \geq -8$

iii. $-9 \leq -3$

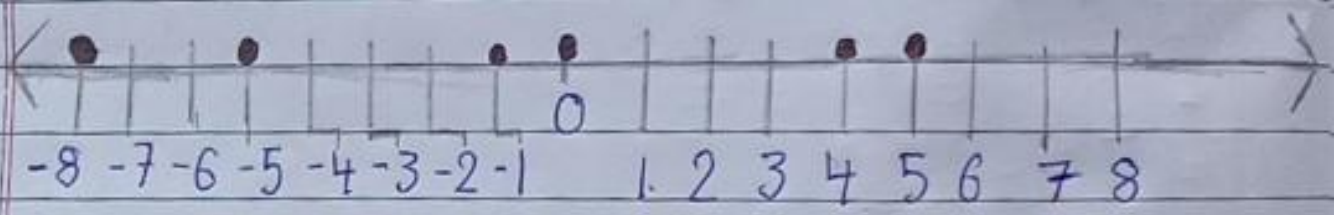
iv. $-3 \leq 3$

v. $5 \geq -1$

vi. $-13 \leq 0$

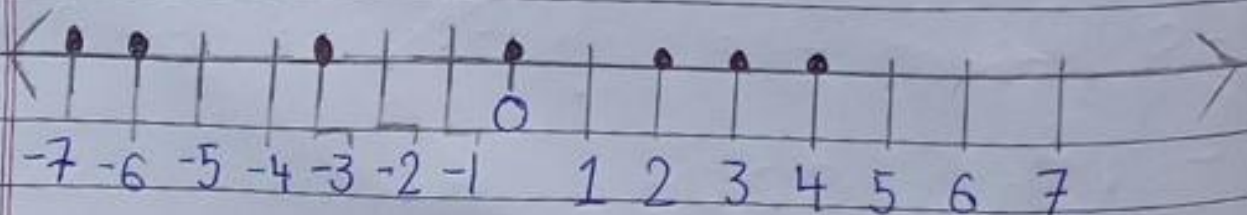
vii. $-8 \geq -18$

5) i. $-8, 0, -5, 5, 4, -1$



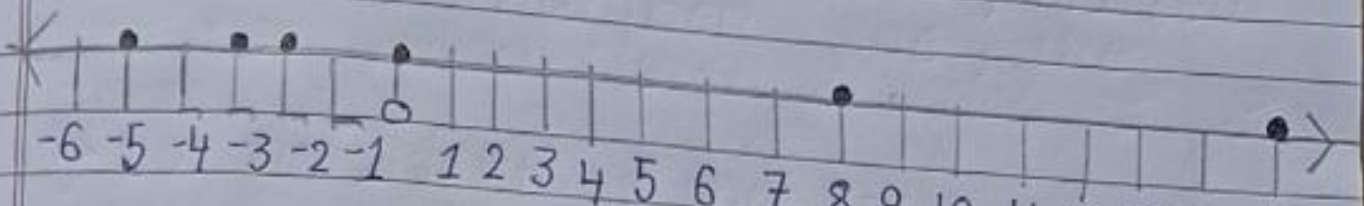
$= -8, -5, -1, 0, 4, 5$

ii. $3, -3, 4, -7, 0, -6, 2$



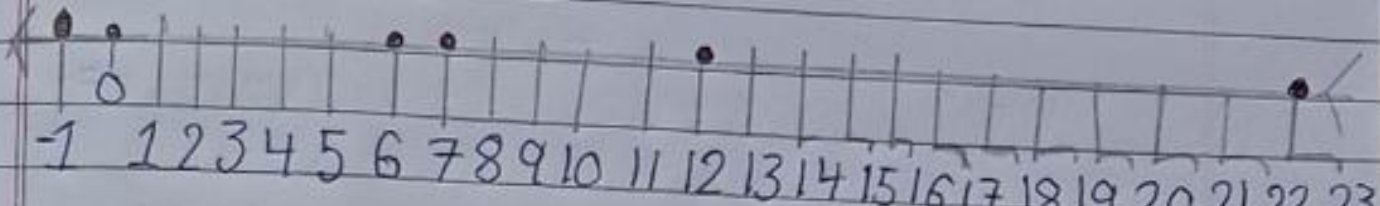
$= -7, -6, -3, 0, 2, 3, 4$

6) i. -5, -3, 8, 15, 0, -2



= 15, 8, 0, -2, -3, -5

ii. 12, 23, -1, 0, 7, 6



= 23, 12, 7, 6, 0, -1

7) i. The smallest integer is 0. False

ii The opposite of -17 is 17. True

iii. The opposite of 0 is 0. True

iv. Every negative integer is smaller than 0. True

v. 0 is greater than every positive integer. False

v. Since, 0 is neither negative nor positive, it is not an integer. false