

## Practice Questions ( Lecture No. 2 )

**Note: Practice these questions. Solve and type in Math Type Software.**

Q1: Solve the following

(i)  $|-100|$

(ii)  $|125|$

(iii)  $|-2.5|$

(iv)  $|\pm 200|$

(v)  $\left|+\frac{1}{2}\right|$

Q2: Solve the following

(i)  $|2+5|$

(ii)  $|-2+5|$

(iii)  $|2-5|$

(iv)  $|-2-5|$

Q3: Solve the following for  $x$ .

(i)  $|x| < 3$

(ii)  $|x| \geq 3$

(iii)  $|x-5| < 10$

(iv)  $|x-5| \geq 10$

Q4: Check the validity of the triangular inequality  $|a + b| \leq |a| + |b|$  for the following numbers  $a$  and  $b$ .

(i)  $a = 2, b = 3$

(ii)  $a = -2, b = 3$

(iii)  $a = 2, b = -3$

(iv)  $a = -2, b = -3$