**INTERVAL NOTATION**

It is assumed that a<b

|  |  |  |  |
| --- | --- | --- | --- |
|  | INTERVAL NOTATION | SET NOTATION | GRAPH |
| Bounded open interval |  (a, b) | {x / a< x < b} | o |
| Bounded closed interval |  [a, b] |  |  |
| Bounded half-open interval |  [a,b) |  |  |
| Bounded half-open interval |  (a, b] |  |  |
| Unbounded open interval |  (-, b) | {x / x < b} |  |
| Unbounded open interval |  (a, ) | {x / x>a} |  |
| Unbounded closed interval |  (-, b] |  |  |
| Unbounded closed interval |  [a, ) |  |  |
| Entire real line |  (-,) | {x / x is a real number} |  |