**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} |  |