INTERVALS

TYPE OF INTERVAL	NOTATION	GRAPH	DESCRIPTION
OPEN	$(a, b) = \{x \mid a < x < b\}$		The variable x represents all values greater than element **"a"** and less than element **"b"**.
CLOSED	$[a, b] = \{x \mid a \leq x \leq b\}$		The variable "x" represents all values greater than or equal to element **"a"** and less than or equal to element**"b"**.
MIXED	$(a, b] = \{x \mid a < x \leq b\}$		The variable x represents all values greater than element "a" and less than or equal to element**"b"**.
MIXED	$[a, b) = \{x \mid a \leq x < b\}$		The variable x represents all values greater than or equal to element **"a"** and less than element**"b"**.
INFINITE	$(a, +\infty) = \{x \mid x > a\}$		The variable x represents all values greater than element **"a"**.
INFINITE	$[a, +\infty) = \{x \mid x \geq a\}$		The variable x represents all values greater than or equal to element **"a"**.
INFINITE	$(-\infty, b) = \{x \mid x < b\}$		The variable x represents all values less than element **"b"**.
INFINITE	$(-\infty, b] = \{x \mid x \leq b\}$		The variable x represents all values less than or equal to element **"b"**.