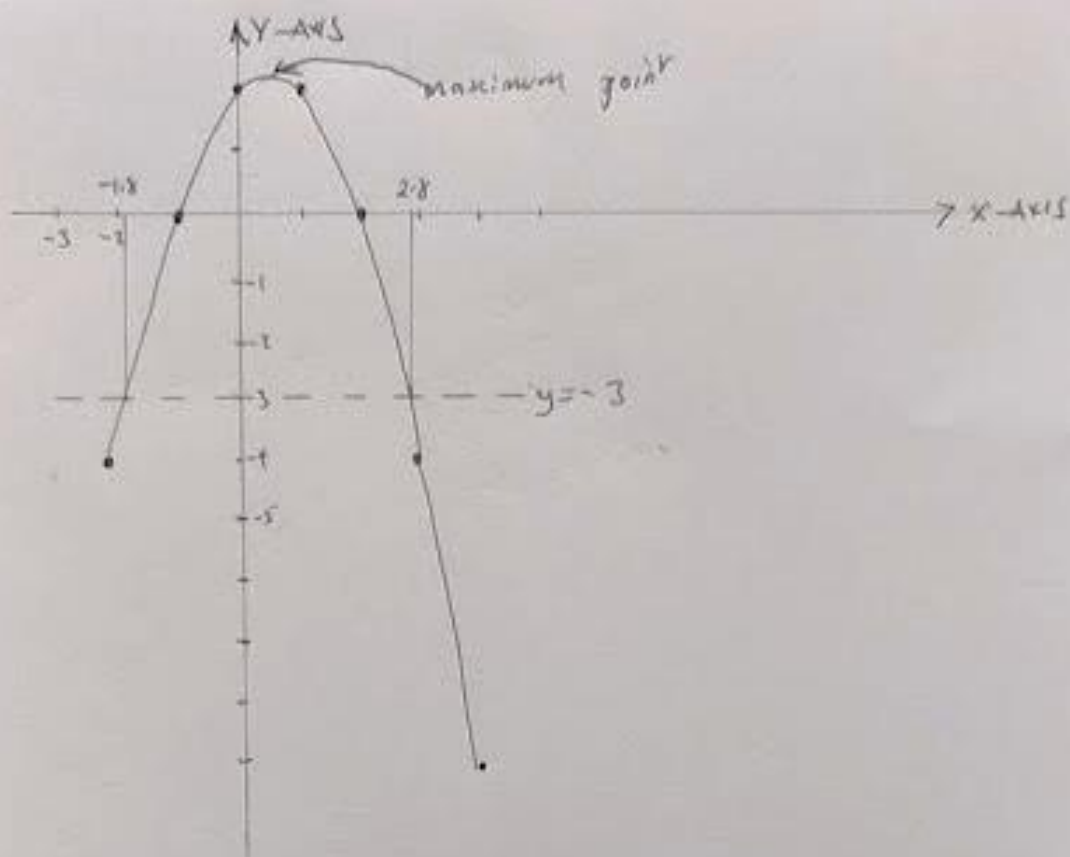


(4)	x	-2	-1	0	1	2	3	$+$	$\frac{1}{2}$
(i)	2	2	2	2	2	2	2	2	2
	x	-2	-1	0	1	2	3	$+$	$\frac{1}{2}$
	$-x^2$	-4	-1	0	-1	-4	-9	-16	$-\frac{1}{4}$
	$f(x)$	$-+$	0	2	2	0	$-+$	-10	$2\frac{1}{4}$



(ii) (a) Solve $2+x-x^2=0$
 $x=-1$ and $x=2$

(b) $2+x-x^2=-3$
 $f(x)=-3$ ($y=-3$)
 $x=-1$ and $x=2$

(iii) $x =$
 Maximum point $(\frac{1}{2}, 2\frac{1}{4})$

(v) $\{x \leq -1\} \cup \{x \geq 2\}$
 In the given domain, answer = $\{-2 \leq x \leq -1\}$ and $\{2 \leq x \leq +\}$