

$$n \geq 1 \Rightarrow 1 = n^2 - 2n + 1 \quad n^2 - 2n = 0 \quad n(n-2) = 0 \quad n=2$$

$$-n^2 + 2n - 1 = 1 \Rightarrow 1 + n^2 - 2n = 0 \quad \Delta = 4 - 4(1)(1) = 0$$

①

$$\frac{2n-1}{n} < 2 \Rightarrow \frac{2n-1}{n} - 2 < 0 \Rightarrow \frac{2n-2n-1}{n} < 0 \Rightarrow \frac{-1}{n} < 0 \quad n > 0$$

$$\frac{2n-1}{n} + 2 > 0 \Rightarrow \frac{2n+2n-1}{n} > 0 \Rightarrow \frac{4n-1}{n} > 0 \Rightarrow \frac{4n-1}{n} > 0$$

$$\frac{4n-1}{n} > 0 \Rightarrow \frac{4n-1}{n} > 0 \Rightarrow \frac{4n-1}{n} > 0$$

$$n > 4 \quad n^2 < n+4 \quad n^2 - n - 4 < 0 \quad n \in (-2, 4) \quad n \in \emptyset$$

$$n < 4 \quad n^2 > n+4 \rightarrow n^2 - n - 4 > 0 \quad n \in (-\infty, -2) \cup (4, \infty)$$

$$|n+1| - |2n| + |n-2|$$

$$n \geq 2 \Rightarrow 2+1-2n+n-2 = 1-2n+1 = 2-2n = 2(1-n) \leq 0$$

$$2 \geq n \geq 0 \Rightarrow 2+1-2n-n+2 = 5-3n \Rightarrow \text{max } n = 1$$

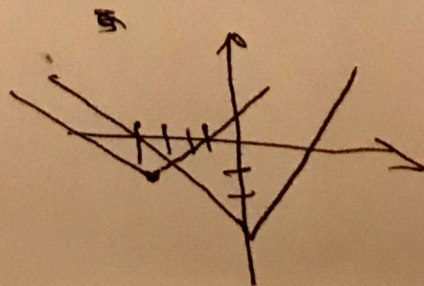
$$0 > n > -1 \Rightarrow 2+1+2n-n+2 = 5+n \Rightarrow \text{max } n = 0$$

$$n < -1 \Rightarrow -n-1+2n-n+2 = 1$$

$$|\frac{1}{2}n| - 2 = |\frac{1}{2}n + \frac{1}{2}| - 2$$

$$|\frac{1}{2}n - 2| = |\frac{1}{2}n - 2|$$

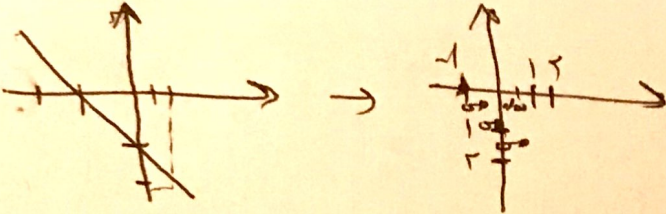
$$n = -2$$



٦

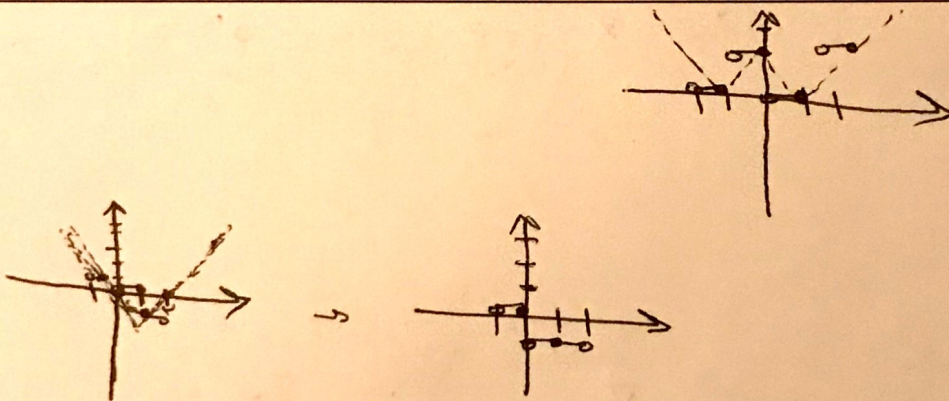
الف

٧



(الف)

٨



(ب)

$$b - [a] = 2/5$$

$$a + [b] = 1/5$$

$$1/5 + 2/5 = 3/5$$

$$[b] - [a] = 2 \quad [a] + [b] = 1$$

$$2[b] = 9 \quad [b] = 9/2$$

$$[a] = 1$$

$$a + [b] = 1/5 \quad a = 1/5$$

$$b - [a] = 2/5 \quad b = 3/5$$

٩

١٠