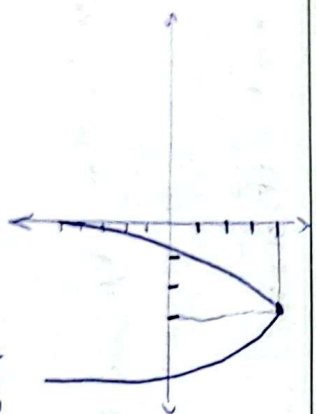


نام و نام خانوادگی پاسخامه تشریحی تکلیف شماره کلاس B

1	$y = x^2 + ax + b \rightarrow a > 0 \rightarrow \min$ $4 - 1a + b = -4$ $\left \begin{array}{c} -\frac{b}{2a} \\ -\frac{\Delta}{4a} \end{array} \right $ $-\frac{b}{2a} \rightarrow -\frac{4}{2} = -2$  ب)
2	$\text{الف) } -\frac{4}{-2} = 2$ $-4 + 1a - 3 = 1$ $\max \left \begin{array}{c} 2 \\ 1 \end{array} \right $ $y = -x^2 + 2x - 3 \rightarrow a < 0 \rightarrow \max$ $\Delta = b^2 - 4ac = (-3)^2 - 4(1)(-3) = 9 - 12(a)$ $\text{الف) } 9 - 12a > 0 \Rightarrow \frac{3}{4}a$ $\text{ب) } 9 - 12a = 0 \Rightarrow \frac{3}{4}a = 0$ $\text{ج) } 9 - 12a < 0 \Rightarrow a > \frac{3}{4}$ $\text{د) } 9 - 12a < 0 \Rightarrow a < \frac{3}{4}$
3	$\Delta = b^2 - 4ac = (-3)^2 - 4(1)(-3) = 9 - 12(a)$ $\text{الف) } 9 - 12a > 0 \Rightarrow \frac{3}{4}a$ $\text{ب) } 9 - 12a = 0 \Rightarrow \frac{3}{4}a = 0$ $\text{ج) } 9 - 12a < 0 \Rightarrow a > \frac{3}{4}$ $\text{د) } 9 - 12a < 0 \Rightarrow a < \frac{3}{4}$
4	$\text{الف) } x^2 - 2x - 1 = 0 \rightarrow x^2 - 2x + 1 - 2 = 0 \rightarrow (x-1)^2 = 2$ $x-1 = \pm\sqrt{2}$ $x = 1 \pm \sqrt{2}$ $\text{ب) } (x - \frac{1}{2})^2 = \frac{5}{2} \rightarrow x - \frac{1}{2} = \pm\sqrt{\frac{5}{2}} \rightarrow x = \frac{1}{2} \pm \sqrt{\frac{5}{2}}$
5	$\text{الف) } x^2 - 2x - 1 = 0 \rightarrow \Delta = b^2 - 4ac = 4 - 4(-1) = 8$ $x = \frac{2 \pm \sqrt{8}}{2} = 1 \pm \sqrt{2}$ $\text{ب) } x^2 + x - 2 = 0 \rightarrow \Delta = b^2 - 4ac = 1 - 4(-2) = 9$ $x = \frac{-1 \pm \sqrt{9}}{2} = \frac{-1 \pm 3}{2}$

