

نام و نام خانوادگی هجسته نصیری پور پاسخنامه تشریحی تکلیف شماره کلاس دبیرستان
 ۱۵۷۶۸

$$\begin{aligned}
 x^2 - 5x + 2 &= 0 \\
 a + b &= -\frac{b}{a} = 5 \\
 ab &= \frac{c}{a} = 2 \\
 \rightarrow a &= \frac{2}{b} \\
 19 \times 5B(23B - 10) / (5B - 2) &= 19 \\
 \frac{19 \times 5B(23B - 10)}{5B(13B - 10)} &= 19
 \end{aligned}$$

$$\begin{aligned}
 \frac{5a + b^2}{5b^2} &= ? \\
 B^2 - 5B + 2 &= 0 \\
 B^2 &= 5B - 2 \\
 \frac{5a + b^2}{5b^2} &= \frac{5(\frac{2}{b}) + (5B - 2)}{5B^2} = \frac{\frac{10}{b} + 5B - 2}{5B^2} = \frac{1}{5B^2} + \frac{5B}{5B^2} - \frac{2}{5B^2} = \frac{1}{5B^2} + \frac{1}{B} - \frac{2}{5B^2} = \frac{1}{B}
 \end{aligned}$$

$$B^3 = B(5B - 2) = 5B^2 - 2B \\
 5(5B^2 - 2B) - 2B = 23B - 10 \\
 B^3 = B^2 B^2 = (5B - 2)(23B - 10) = 115B^2 - 94B + 20 \\
 115(5B - 2) - 94B + 20 = 579B - 210 \\
 \frac{579B - 210}{5B^2} = \frac{1}{B} + \frac{579B}{5B^2} - \frac{210}{5B^2} = \frac{1}{5B^2} + \frac{579}{5B} - \frac{42}{B^2} = \frac{19}{B}$$

صورتی این تابع رسم شد

$$\begin{aligned}
 (3, -4), (-1, 0), (-4) \\
 x_1 = \frac{3}{2} = -\frac{b}{2a} \rightarrow -\frac{b}{a} = \frac{3}{2} \\
 s = -\frac{b}{a} \quad p = \frac{c}{a} \\
 \rightarrow \left[\frac{3}{2} \right] = 1, 5
 \end{aligned}$$

$$\begin{aligned}
 (a - b) &= \frac{\sqrt{\Delta}}{|a|} \rightarrow \frac{\sum k}{3} = \frac{\sqrt{4(k^2 - a)}}{1} \rightarrow 2\sqrt{k^2 - a} \rightarrow \frac{2k}{3} = \sqrt{k^2 - a} \\
 \frac{2k}{3} &\rightarrow \frac{4}{9}k^2 = k^2 - a \rightarrow a = \frac{5}{9}k^2 \rightarrow k^2 = 9 \rightarrow \left[\frac{k^2}{9} \right] = \left[\frac{9}{9} \right] = 1
 \end{aligned}$$

$$\begin{aligned}
 A = \begin{vmatrix} 1 & 2 \\ 2 & 1 \end{vmatrix}, B = \begin{vmatrix} 1 & -5 \\ 2 & 1 \end{vmatrix} \quad s = -1 \\
 \begin{vmatrix} -5 & -1 & 3 \\ 2 & 1 & 2 \end{vmatrix} \quad \frac{a+b}{2} = \frac{-5+3}{2} = -1 \\
 a+b = -2 \rightarrow x_s = \frac{2}{-2} = -1 \\
 a^2 + b^2 = 5 \rightarrow (a+b)^2 - 2ab = 5 \rightarrow ab = -\frac{1}{2} \\
 y = a(x^2 + 2x - \frac{1}{2}) \rightarrow 1 = a(1 + 2 - \frac{1}{2}) \rightarrow a = \frac{2}{3} \\
 y = \frac{2}{3}(x^2 + 2x - \frac{1}{2}) \rightarrow y = \frac{1}{3}
 \end{aligned}$$

$$\begin{aligned}
 \alpha + \beta &= \frac{\alpha + \beta}{2} = 2, 5 \\
 x &= \frac{-5 - \sqrt{25 + 4m}}{-2} < \frac{9}{2} \\
 (-\sqrt{25 + 4m})^2 &> (-9)^2 \\
 25 + 4m &> 81 \\
 4m > 56 \rightarrow m > 14 \rightarrow m < -4, - \\
 \Delta > 0 \rightarrow 25 + 4m > 0 \quad 4m > -25 \\
 m > -6, 25 \\
 \frac{-5 + \sqrt{25 + 4m}}{-2} < \frac{9}{2} \quad \sqrt{25 + 4m} > -9 \\
 \frac{-25}{-2} < m < -\frac{9}{2} \rightarrow -12, 5 < m < -4, 5 \\
 [-4, 5, -12, 5]
 \end{aligned}$$

$$y = mx^2 - 12x + 5m - 1$$

$$\frac{-\Delta}{4a} = 2 \rightarrow \Delta = -16a \rightarrow 144 - 4m(5m-1) = -16m \xrightarrow{\div 4} 36 - 5m^2 + m = -4m$$

$$\rightarrow 5m^2 - 5m - 4m = 0 \xrightarrow{m > 0} m = 3$$

$$\text{C/O } \Delta = \frac{144}{4 \times 5} = \boxed{7}$$

$$a + b = -1a - 2 \quad a \times b = 7a - 1$$

$$a^2 = a \times b = 7a - 1$$

$$a^2 - 7a + 1 \rightarrow (a-1)^2 = 0 \rightarrow \boxed{a=1}$$

$$x^2 - vx - a = 0 \rightarrow x^2 = t \rightarrow t^2 - vt - a = 0$$

$$t = \frac{+v \pm \sqrt{v^2 - 4(-1)(-a)}}{2} \rightarrow \frac{v \pm \sqrt{v^2 - 4a}}{2} = x^2 \rightarrow x = \pm \sqrt{\frac{v \pm \sqrt{v^2 - 4a}}{2}} \rightarrow s=0, p = -\frac{v \pm \sqrt{v^2 - 4a}}{2}$$

$$p_1 p_2 - 3s p_1 + p_2 = 2 \times \frac{v^2 + 4a + 1 \pm \sqrt{v^2 - 4a}}{2} = \boxed{5a + v \sqrt{v^2 - 4a}}$$

$$\left| \frac{-b}{2a} \right|, \quad y = kx^2 - 8x - 4 \rightarrow \left| \frac{+8}{2k} \right| = \frac{4}{k}$$

$$\text{ext} \left| \frac{-\Delta}{4a} = \frac{-b^2 \pm 4ac}{4a} = \frac{-144 + (-8)(-4k)}{4k} = \frac{-8}{k} - 4 = \frac{-8 - 4k}{k} \right|$$

$$\frac{-8}{k} - 4 = -8 \left(\frac{4}{k} \right) - 8 \rightarrow \frac{-8}{k} + \frac{16}{k} = -8 + 4 = 2 = \frac{8}{k} \rightarrow 2k = 8 \rightarrow k = 4$$

$$y = \frac{-8}{k} - 4 = \frac{-8}{4} - 4 = -2 - 4 = \boxed{-6}$$

$$-mx^2 + mx + 1 = -m - 1 \rightarrow -mx^2 + (m+1)x + m+1 = 0 \xrightarrow{\Delta < 0}$$

$$(m+1)^2 + 4m(m+1) < 0 \rightarrow (m+1)(5m+1) < 0$$

$$\begin{array}{c|c|c|c|} -1 & & -\frac{1}{5} & \\ \hline \Delta & + & 0 & - \\ \hline & + & 0 & + \end{array}$$

بین -1 و $-\frac{1}{5}$ میں مقدار منفی قرار ندارد۔ (0) میں مقدار