نام و نام خانوادگی ....حسین حاجی حسنی.... پاسخنامه تشریحی تکلیف شماره ..۲.. کلاس ......B......

$-\frac{b}{2a}=2 \Rightarrow \frac{-1}{2a-2}=2 \Rightarrow 4a=3 \Rightarrow a=\frac{3}{4} \Rightarrow -\frac{1}{4}x^2+x+3$ $x^2-4x-12 \Rightarrow (x-6)(x+2)$ $\boxed{6}$ $\quad -2$ غ‌ق‌ق	۱
$\Delta>0 \Rightarrow \Delta=25-(4)(m^2) \Rightarrow 25-4m^2>0 \Rightarrow 25>4m^2 \Rightarrow$ $m<0$ $\frac{25}{4}>m^2 \Rightarrow \frac{5}{2}>m$ $m>-\frac{5}{2}$ $m<0$ $-3 \; -2 \; -1 \; 0 \; 1 \; 2 \; 3$ $I\cap II=(-\frac{5}{2},0)$	۲
$x^2-Sx+P \Rightarrow x^2-2x+\frac{4}{9} \Rightarrow \boxed{9x^2-18x+4}$ $S=\frac{3-\sqrt5+3+\sqrt5}{3}=2$ $P=\frac{(3-\sqrt5)(3+\sqrt5)}{9}=\frac{9-5}{9}=\frac{4}{9}$	۳
$2\alpha^2+2\beta^2+\alpha^2-\beta^2=12 \Rightarrow 2(\alpha^2+\beta^2)+(\alpha-\beta)(\alpha+\beta)=12$ $\lvert\alpha-\beta\rvert=\frac{\sqrt\Delta}{\lvert a\rvert}=64-(4)(2m+4)=64-8m-16 \Rightarrow \frac{\sqrt{48-8m}}{2}$ $S^2-2P=16-m-2=14-m$ $\quad 28-2m+2\sqrt{48-8m}=12 \Rightarrow 12-28+2m=-16+2m \Rightarrow$ $\sqrt{48-8m}=m-8 \Rightarrow 48-8m=m^2-16m+64 \Rightarrow m^2-8m+16=0 \Rightarrow \boxed{m=4}$ $(m-4)^2$	۴
معادله $= ax^2+bx+5 \Rightarrow -x^2+4x+5$ $2=x_s=\frac{-b}{2a}=2 \Rightarrow 4a=-b \Rightarrow b=-4a \Rightarrow$ معادله $ax^2-4ax+5$ $x=2 \Rightarrow 4a-8a+5=9 \Rightarrow a=-1$ $\quad \boxed{x\in(-1,5)}$ $x^2+4x-5=0 \Rightarrow (x+5)(x-1) \to x_1=-5, x_2=5$ $-5\times-1=5 \quad 1\times-1=-1$	۵

$\frac{9\beta}{\alpha} = \alpha^2 \cdot \beta \Rightarrow 9 = \alpha^2 \Rightarrow \alpha = \pm 3$ $\alpha \to 3 \Rightarrow \frac{7}{3} = 3 + \beta \Rightarrow \beta < 0$ غق $\alpha \to -3 \Rightarrow -\frac{7}{3} = -3 + \beta \Rightarrow -\frac{7}{3} + \frac{9}{3} = \beta \Rightarrow \beta = \frac{2}{3}$ $\frac{7}{\alpha} = \alpha + \beta$ $\frac{1}{\alpha} + \frac{1}{\beta} = \frac{1}{-3} + \frac{3}{2} = \frac{-2+9}{6} = \boxed{\frac{7}{6}}$	6
$m\beta = -\beta^2 + 2m$ $\alpha^2 + \beta^2 - 2m = 8 \Rightarrow \alpha^2 + \beta^2 = 8 + 2m$ $S = -m$ $P = -2m$ $\alpha^2 + \beta^2 = S^2 - 2P \Rightarrow m^2 + 4m = 8 + 2m \Rightarrow m^2 + 2m - 8 = 0$ $(m+4)(m-2) \to -4,\ 2$ $m \to -4 = x^2 - 4x + 8 \Rightarrow \Delta < 0$ غق $m \to +2 = \ldots \Rightarrow x^2 + 2x - 4 \Rightarrow \boxed{S = -2}$	7
$\frac{-\Delta}{4a} = \frac{16 - (4)(m)\left(\frac{m+12}{2}\right)}{} \Rightarrow \frac{-6 + 2m^2 + 28m}{4m} = 8 \Rightarrow 32m = 28m + 2m^2 - 16$ $2m^2 - 4m - 16 = 0 \Rightarrow m^2 - 4m - 32 = 0 \to (m-8)(m+4)$ 8 غق (تابع دارای max است) ، -4 ✓ $-2x^2 + 2x + 6 = 0$ $x^2 + 4x - 12 \Rightarrow (x+6)(x-2)$ $\frac{-6}{-2} = 3$ ، $\frac{+12}{-4} = -3$ $\boxed{3 = k}$	8
$x_S = 2 \Rightarrow \frac{-b}{2a} = 2 \Rightarrow 4a = -b \Rightarrow b = -4a \Rightarrow ax^2 - 4ax + 4$ $4a - 8a + 4 = 6 \Rightarrow -4a = 2 \Rightarrow a = -\frac{1}{2} \Rightarrow -\frac{1}{2}x^2 + 2x + 4$ $\frac{1}{\alpha} + \frac{1}{\beta} = \frac{\alpha + \beta}{\alpha \cdot \beta} \Rightarrow \frac{S}{P} = \frac{4}{-8} = \boxed{-\frac{1}{2}}$ $S = \frac{-2}{-\frac{1}{2}} = 4 \quad P = \frac{4}{-\frac{1}{2}} = -8$	9
$4 - 8a - 8 + 3a^2 + 6a + 3 = 0 \Rightarrow 3a^2 - 2a - 1 = 0 \Rightarrow a^2 - 2a - 3 = 0$ $(a-3)(a+1) = 0$ $\frac{3}{3}$ ، $-\frac{1}{3}$ $3x^2 + 8 + 4 \to \Delta = 4 \Rightarrow x_1, x_2 = \frac{-2}{-2} \Rightarrow$ غق $3 \to x^2 - 8x + 2 \Rightarrow \Delta = 4 \Rightarrow \frac{-b \pm 4}{2} = 2,\ \boxed{6}$	10