

$$\frac{L}{w} = \frac{\omega}{r} \rightarrow L = \frac{\omega w}{r} \quad L \times w = \frac{\omega w^2}{r} = S$$

$$\frac{L'}{w'} = \frac{1+\sqrt{2}}{r} \rightarrow L' = \frac{(1+\sqrt{2})(w')}{r} \quad L' \times w' = \frac{(1+\sqrt{2})(w')^2}{r} = S'$$

$$\frac{S'}{S} = \frac{(1+\sqrt{2})(w')^2}{\frac{\omega w^2}{r}} = 1+\sqrt{2} \times \frac{r}{\omega} = \frac{r(1+\sqrt{2})}{\omega}$$

$$L^2 + w^2 = b^2 \quad \frac{b}{L} = \frac{1+\sqrt{2}}{r}$$

$$\frac{w^2}{L^2} = \frac{1+\sqrt{2}}{r} \rightarrow \frac{L^2}{w^2} = \frac{r}{1+\sqrt{2}}$$

$$\frac{b^2}{L^2} = \left(\frac{1+\sqrt{2}}{r}\right)^2 \rightarrow \frac{1+0+2\sqrt{2}}{r^2} = \frac{2+2\sqrt{2}}{r^2} \Rightarrow \frac{r+\sqrt{2}}{r}$$

$$\frac{L^2 + w^2}{L^2} = \frac{r+\sqrt{2}}{r} \rightarrow \frac{L^2}{L^2} + \frac{w^2}{L^2} = 1 + \frac{w^2}{L^2} = \frac{r+\sqrt{2}}{r} \rightarrow \frac{w^2}{L^2} = \frac{1+\sqrt{2}}{r}$$

$$\sqrt{2a^2 + b^2} = p - a \rightarrow 2a^2 + b^2 = p^2 + a^2 - 2ap$$

$$\frac{1 \pm \sqrt{144}}{12} \rightarrow \frac{1 \pm 12}{12} \left[\frac{r}{p} \right]$$

$$2a^2 - 14a + p^2 = 0 \quad (-14)^2 - 4(2)(p^2) = 144$$

$$p \rightarrow r(x) + \sqrt{2(r(x))^2 + b^2} = 2 + p = p \times$$

$$\frac{a+1}{a} \rightarrow \frac{\frac{p}{v}+1}{\frac{p}{v}} = \frac{q}{\frac{p}{v}} = \left(\frac{q}{p}\right)$$

$$\frac{p}{r} \rightarrow r\left(\frac{p}{r}\right) + \sqrt{2\left(\frac{p}{r}\right)^2 + b^2} = \frac{p}{r} + \frac{p}{r} = \frac{2p}{r} = p \checkmark$$

$$\frac{\sqrt{n+1}}{\sqrt{n-1}+r} - \frac{\sqrt{n+1}}{r-\sqrt{n-1}} = \frac{n-1}{\sqrt{n-1}} \quad \frac{r\sqrt{n+1} - \sqrt{n-1} - \sqrt{n-1} - r\sqrt{n+1}}{r^2 - n - 1} = \frac{n-1}{\sqrt{n-1}}$$

$$\frac{-2\sqrt{n+1}}{n-n} = \frac{n-1}{\sqrt{n-1}} \rightarrow \frac{-2\sqrt{n+1}}{n-n} = \frac{\sqrt{n-1}}{\sqrt{n-1}} \rightarrow \frac{-2\sqrt{n+1}}{n-n} = 1 \rightarrow -2\sqrt{n+1} = n-n$$

$$p^2 + p = 4(1+n) - 14n \rightarrow n^2 - 2n + 4 = 0 \quad \Delta = 16 \quad \frac{2 \pm \sqrt{16}}{2} \quad \sqrt{14} < \sqrt{16} < \sqrt{20}$$

$$\frac{1}{\sqrt{p-n}+r} - \frac{1}{r-\sqrt{p-n}} = \frac{p-n}{0\sqrt{p-n}} \quad \frac{r-\sqrt{p-n} - \sqrt{p-n} - r}{r^2 - p + n} = \frac{-2\sqrt{p-n}}{r^2 - p + n} = \frac{p-n}{0\sqrt{p-n}}$$

$$\Rightarrow p_1 + 10n = p - n^2 \rightarrow n^2 + 10n - p = 0 \quad \Delta = b^2 - 4ac = 100 - 4(1)(p) = 4$$

$$n = \frac{-10 \pm \sqrt{4}}{2} \left[\begin{array}{l} \text{نسبت نزاع} \\ -4 \\ -2 \end{array} \right]$$

$$\Delta = b^2 - 4ac = (-10)^2 - 4(1)(p) = 100 - 4p \leq 4$$

$$\frac{10 \pm \sqrt{4}}{2} \left[\begin{array}{l} \text{نسبت نزاع} \\ -4 \\ -2 \end{array} \right] \rightarrow \frac{1}{\sqrt{p-n}+r} - \frac{1}{r-\sqrt{p-n}} = \frac{p-n}{0\sqrt{p-n}} \Rightarrow 0$$

$$\frac{(1-m)^p + m^p}{m^p(1-m)^p} = \frac{1}{q} \quad 1 - p_m + p_m^p \leq \frac{1}{q} m^p (1 - p_m + m^p) = 3q - 1 + 18m + 18m^p$$

$$q - 18m + 18m^p = 1 \quad m^p - p_m m^p + 1/q m^p \rightarrow 1/q m^p - p_m m^p + 18p_m^p + 18m - q = 0$$

$$55 - \frac{h}{a} = 0$$

$$5 = -\frac{-p_m}{1/q} = p$$

$$a \leq 1/q \quad b \leq p_m$$

$$-m^p + 5m - 1 \geq 0 \rightarrow m^p - 5m + 1 \leq 0 \quad (m-p)(m-p) \leq 0 \Rightarrow m \in [p, p]$$

$$-m^p + 5m^p + p_0 m - 100 \quad \begin{cases} m=p \rightarrow -1 + 15 + 0 - 100 = -86 \\ m=p \rightarrow -p^p + 5p^p + p_0 - 100 = -15 \end{cases} \quad \text{and } 1/2, 1/3$$

$$m \leq p \rightarrow -p^p + 5p + 100 - 100 = 0 \quad m \in [p, 90] \quad [p, 90] \cap [p, p] = \{p\}$$

$$m \leq 0 \Rightarrow -100 + 100 + 100 - 100 \leq 0$$

$$f \rightarrow \sqrt{f^2 - 5f + 100 - 100} + \sqrt{15 + 15 + 2f - 1} \geq f + p \quad \sqrt{f^2 - 5f} \geq f \rightarrow f \leq p \quad \checkmark$$

$$|m+p| + |m-1| \quad \begin{cases} m+p+m-1 \leq p_m+1 \quad m \geq 1 \\ m+p-m+1 = m \quad 1 < m < p \\ -m-p-m+1 = -p_m-1 \quad m \leq -p \end{cases} \quad \begin{aligned} -\frac{1}{m} m + \frac{1}{p} &= -p_m - 1 \\ \frac{1}{m} m &= -\frac{p}{m} \rightarrow 0 m \leq -p_0 \quad \checkmark \\ m &\leq -p \end{aligned}$$

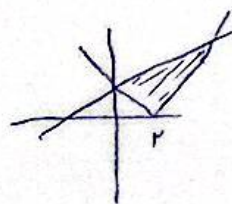
$$m \leq -p \rightarrow -m + 1/p \rightarrow \frac{1}{p} m + \frac{1}{p} \rightarrow \frac{1}{p} m \leq \frac{1}{p} \rightarrow m \leq p - \frac{p_m+1}{p} \quad p(p) \leq 100 \quad \propto \frac{p}{100}$$

$$\sqrt{m^p - 5m + p} = |m-p| \quad m-p = \frac{1}{p} m + p \rightarrow \frac{1}{p} m \geq p \rightarrow m \geq p \quad m-p \leq p \quad \frac{1}{p} m \leq p$$

$$\frac{1}{p} m + p = 2 \xrightarrow{m=0} \frac{1}{p} p + p = 2 \rightarrow 2 = p \quad \text{B/O}$$

$$|m-p| = 0 \rightarrow m-p \leq 0 \rightarrow m \leq p \quad \text{C/O}$$

$$\frac{1}{p} \begin{vmatrix} 1 & 1 & 1 \\ 0 & p & 1 \\ p & 0 & 1 \end{vmatrix} \leq \frac{1}{p} (1p + 1p + 0 - p^2 - 0 - 0) \leq 1p$$



$$\frac{1}{m} + \frac{1}{m+q} = \frac{1}{p_0} \xrightarrow{p_0 m(m+q)} p_0(m+q) + p_0 m = m(m+q)$$

$$p_0 m + 1/p_0 + p_0 m = m^p + qm \Rightarrow m^p - p_0 m - 1/p_0$$

$$(m+0)(m-p_0) = 0 \xrightarrow{m>0} m \leq p_0$$