

1 + 9 = 10 2 + 22 = 24

11 + 33 = 44 22 + 44 = 66

33 + 66 = 99 44 + 88 = 132

66 + 99 = 165 88 + 110 = 198

99 + 132 = 231 110 + 154 = 264

132 + 165 = 297 154 + 187 = 341

165 + 198 = 363 187 + 220 = 407

198 + 231 = 429 220 + 264 = 484

231 + 264 = 495 264 + 308 = 572

264 + 308 = 572 308 + 352 = 660

308 + 352 = 660 352 + 396 = 748

352 + 396 = 748 396 + 440 = 836

396 + 440 = 836 440 + 484 = 924

440 + 484 = 924 484 + 528 = 1012

484 + 528 = 1012 528 + 572 = 1100

528 + 572 = 1100 572 + 616 = 1188

572 + 616 = 1188 616 + 660 = 1276

616 + 660 = 1276 660 + 704 = 1364

660 + 704 = 1364 704 + 748 = 1452

704 + 748 = 1452 748 + 792 = 1540

748 + 792 = 1540 792 + 836 = 1628

792 + 836 = 1628 836 + 880 = 1716

836 + 880 = 1716 880 + 924 = 1804

880 + 924 = 1804 924 + 968 = 1892

924 + 968 = 1892 968 + 1012 = 1980

968 + 1012 = 1980 1012 + 1056 = 2068

1012 + 1056 = 2068 1056 + 1100 = 2156

1056 + 1100 = 2156 1100 + 1144 = 2244

1100 + 1144 = 2244 1144 + 1188 = 2332

1144 + 1188 = 2332 1188 + 1232 = 2420

1188 + 1232 = 2420 1232 + 1276 = 2508

1232 + 1276 = 2508 1276 + 1320 = 2596

1276 + 1320 = 2596 1320 + 1364 = 2684

1320 + 1364 = 2684 1364 + 1408 = 2772

1364 + 1408 = 2772 1408 + 1452 = 2860

1408 + 1452 = 2860 1452 + 1496 = 2948

1452 + 1496 = 2948 1496 + 1540 = 3036

1496 + 1540 = 3036 1540 + 1584 = 3124

1540 + 1584 = 3124 1584 + 1628 = 3212

1584 + 1628 = 3212 1628 + 1672 = 3300

1628 + 1672 = 3300 1672 + 1716 = 3388

1672 + 1716 = 3388 1716 + 1760 = 3476

1716 + 1760 = 3476 1760 + 1804 = 3564

1760 + 1804 = 3564 1804 + 1848 = 3652

1804 + 1848 = 3652 1848 + 1892 = 3740

1848 + 1892 = 3740 1892 + 1936 = 3828

1892 + 1936 = 3828 1936 + 1980 = 3916

1936 + 1980 = 3916 1980 + 2024 = 4004

1980 + 2024 = 4004 2024 + 2068 = 4092

2024 + 2068 = 4092 2068 + 2112 = 4180

2068 + 2112 = 4180 2112 + 2156 = 4268

2112 + 2156 = 4268 2156 + 2200 = 4356

2156 + 2200 = 4356 2200 + 2244 = 4444

2200 + 2244 = 4444 2244 + 2288 = 4532

2244 + 2288 = 4532 2288 + 2332 = 4620

2288 + 2332 = 4620 2332 + 2376 = 4708

2332 + 2376 = 4708 2376 + 2420 = 4796

2376 + 2420 = 4796 2420 + 2464 = 4884

2420 + 2464 = 4884 2464 + 2508 = 4972

2464 + 2508 = 4972 2508 + 2552 = 5060

2508 + 2552 = 5060 2552 + 2596 = 5148

2552 + 2596 = 5148 2596 + 2640 = 5236

2596 + 2640 = 5236 2640 + 2684 = 5324

2640 + 2684 = 5324 2684 + 2728 = 5412

2684 + 2728 = 5412 2728 + 2772 = 5500

2728 + 2772 = 5500 2772 + 2816 = 5588

2772 + 2816 = 5588 2816 + 2860 = 5676

2816 + 2860 = 5676 2860 + 2904 = 5764

2860 + 2904 = 5764 2904 + 2948 = 5852

2904 + 2948 = 5852 2948 + 2992 = 5940

2948 + 2992 = 5940 2992 + 3036 = 6028

2992 + 3036 = 6028 3036 + 3080 = 6116

3036 + 3080 = 6116 3080 + 3124 = 6204

3080 + 3124 = 6204 3124 + 3168 = 6292

3124 + 3168 = 6292 3168 + 3212 = 6380

3168 + 3212 = 6380 3212 + 3256 = 6468

3212 + 3256 = 6468 3256 + 3300 = 6556

3256 + 3300 = 6556 3300 + 3344 = 6644

3300 + 3344 = 6644 3344 + 3388 = 6732

3344 + 3388 = 6732 3388 + 3432 = 6820

3388 + 3432 = 6820 3432 + 3476 = 6908

3432 + 3476 = 6908 3476 + 3520 = 6996

3476 + 3520 = 6996 3520 + 3564 = 7084

3520 + 3564 = 7084 3564 + 3608 = 7172

3564 + 3608 = 7172 3608 + 3652 = 7260

3608 + 3652 = 7260 3652 + 3696 = 7348

3652 + 3696 = 7348 3696 + 3740 = 7436

3696 + 3740 = 7436 3740 + 3784 = 7524

3740 + 3784 = 7524 3784 + 3828 = 7612

3784 + 3828 = 7612 3828 + 3872 = 7700

3828 + 3872 = 7700 3872 + 3916 = 7788

3872 + 3916 = 7788 3916 + 3960 = 7876

3916 + 3960 = 7876 3960 + 4004 = 7964

3960 + 4004 = 7964 4004 + 4048 = 8052

4004 + 4048 = 8052 4048 + 4092 = 8140

4048 + 4092 = 8140 4092 + 4136 = 8228

4092 + 4136 = 8228 4136 + 4180 = 8316

4136 + 4180 = 8316 4180 + 4224 = 8404

4180 + 4224 = 8404 4224 + 4268 = 8492

4224 + 4268 = 8492 4268 + 4312 = 8580

4268 + 4312 = 8580 4312 + 4356 = 8668

4312 + 4356 = 8668 4356 + 4400 = 8756

4356 + 4400 = 8756 4400 + 4444 = 8844

4400 + 4444 = 8844 444

$$\text{الف. 1) } \int \frac{1}{K+\sqrt{U}} \cdot \frac{K}{(K+\sqrt{U})^2} = \int \frac{1}{K+\sqrt{U}} \cdot K \sqrt{1+K\sqrt{U}} = \int \frac{1}{K+\sqrt{U}} \cdot K(K+\sqrt{U}) = \int K \quad \text{1P}$$

$$5. \quad \frac{\sqrt{y} + \sqrt{a}}{\sqrt{10} + y} \times \frac{\sqrt{y}}{\sqrt{y}} = \frac{\sqrt{y} + \sqrt{a}}{\sqrt{10} + y} \times \frac{\sqrt{y}}{\sqrt{y}} = 1$$

$$\text{Sol. } \frac{y}{\sqrt{y}-1} \times \frac{\sqrt{y}+1}{\sqrt{y}+1} = \sqrt{y}+1 \quad \frac{y\sqrt{y}+y\sqrt{y}}{y-\sqrt{y}} \times \frac{y+\sqrt{y}}{y+\sqrt{y}} = \frac{y\sqrt{y}+y\sqrt{y}}{y-\sqrt{y}} \quad \text{, 14}$$

$$10 \quad \frac{19(\sqrt{2} + \sqrt{3})}{19} - \sqrt{2} - 1 = \underline{\underline{\sqrt{2} - 1}}$$

$$= \frac{K\sqrt{K}-1}{K+\sqrt{K}} \times \frac{K-\sqrt{K}}{K-\sqrt{K}} = \frac{K\sqrt{K}-K+\sqrt{K}}{K-K} = \frac{1}{K-\sqrt{K}} \times \frac{K+\sqrt{K}}{K+\sqrt{K}} = \frac{K+\sqrt{K}}{K-K}$$

$$\rightarrow \frac{1\sqrt{p}-1}{1\sqrt{p}} + p + \sqrt{p} = p + \sqrt{p} + 1$$

15. الحل $(\sqrt{1+3} + \sqrt{3-1}) = 9$ $2x^2 = 2\sqrt{3} + 2 = 49 = \sqrt{2\sqrt{3}+2} = \sqrt{2} \times \sqrt{\sqrt{3}+1}$

$$\frac{\sqrt{4} \times \sqrt{\sqrt{4} + \sqrt{4}}}{\sqrt{\sqrt{4} - \sqrt{4}}} \cdot \sqrt{4} = \sqrt{4} \times \frac{(\sqrt{\sqrt{4} + \sqrt{4}})^2}{\sqrt{4} - \sqrt{4}} \cdot \sqrt{4} = \sqrt{4} (\sqrt{4} + \sqrt{4}) \cdot \sqrt{4} = \sqrt{4} + \sqrt{4} - \sqrt{4} = \boxed{\sqrt{4}}$$

$$\sqrt[14]{p^1} \times \sqrt[14]{p^4} \times \sqrt[14]{p^9} = p^1 \times p^4 \sqrt[14]{p^1 \times p^4 \times p^9} = 9 \sqrt[14]{p^{14}} = 9 \times p = 9p$$

$$20 \quad \frac{r^x \left(\frac{r^q + 1}{r} \right)}{r^{x \cdot r} (r^q - 1)} = \frac{r^x \cdot r^q \cdot r}{r^{x \cdot r} \cdot r} = \frac{r^{x+q}}{r^{x+r}} = r^{x+q-x-r} = r^{q-r} = r$$

$$((a-b)^r)^r ((a+b)^r)^r = (a^r - b^r)^r = t(r\sqrt{w})$$

$$a^2 = \sqrt{y-x} \quad b^2 = \sqrt{y+x} \quad \therefore (\sqrt{y-x} - \sqrt{y+x})^2 = (\sqrt{y-x} + \sqrt{y+x} - 2\sqrt{(y-x)(y+x)})^2$$

$$(2\sqrt{4} - 2\sqrt{4})^2 = 2x + 1 - 1\sqrt{1x} = 2x - 19\sqrt{x} = 14(2 - \sqrt{x}) - (2 - \sqrt{x})t \Rightarrow t = 14$$

$$\left(1 + \frac{1}{\alpha}\right)^r - 1 = \left(\alpha^r + \frac{1}{\alpha^r} + r - 1\right)^r = r^r \Rightarrow \alpha^r + \frac{1}{\alpha^r} + r = r^r$$

$$V - r\sqrt{r} + \frac{1}{V - r\sqrt{r}} + r = r^r \Rightarrow \frac{r^2 + r - 4r\sqrt{r} + 1 + r^2 - 1\sqrt{r}}{V - r\sqrt{r}} = \frac{11r - 4r\sqrt{r}}{V - r\sqrt{r}} = 14 = r^r$$

$E = K$

$$\sqrt[4]{r} \sqrt[4]{14} = \sqrt[4]{r^4} = \sqrt[4]{r^4} \times \sqrt[4]{r^4} = \sqrt[4]{r^8} = r^2 \Rightarrow K = A \quad r \times K = (A)^{\frac{1}{r}} = \sqrt[r]{\frac{1}{A}} = \frac{1}{\sqrt[r]{A}}$$

$$\sqrt[4]{a} = rV, \sqrt[4]{a^{14}} = rV, \sqrt[4]{a^{-K}} = rV \quad a = \frac{1}{r\sqrt{r}} \Rightarrow a = \frac{1}{r\sqrt{r}} \left(\frac{1}{a} - r\right) \times \frac{1 - \sqrt{r}}{1 + \sqrt{r}}$$

$$\frac{r \times r\sqrt{r}}{-r} - r = -r\sqrt{r} + r$$

$$\sqrt{n + a} - \sqrt{n - k} = r \quad \sqrt{a + k} + \sqrt{n - k} = g$$

$$\sqrt{n + a} - \sqrt{n - k} \times g = rg$$

$$n + a - n - k = rg \quad \frac{a}{r} + r = g \quad \sqrt{a + k} + \sqrt{n - k} - r = \frac{a}{r} + k - r$$

معادلات شده بی نهایت جواب دارند پس جواب های را می توان به اساس μ و ν بست آورد.



$$\left(\frac{\sqrt{r}}{r} - \frac{\sqrt{r}}{r}\right) - \left(\frac{\sqrt{r}}{r} - \frac{\sqrt{r}}{r}\right) = -\left(\frac{\sqrt{r}}{r} - \frac{\sqrt{r}}{r}\right)^2 = -\frac{r}{r} - \frac{r}{r} + \frac{\sqrt{r}}{r} = \frac{r\sqrt{r}-d}{r}$$

$$\frac{1 + r \times \frac{1}{r}}{r \times \frac{1}{r} + r \times \frac{r}{r}} = \frac{r}{r} = 1$$

$$\sqrt{q} \times \frac{\sqrt{r}}{r} = \sqrt{r} = AH \quad \left(\frac{r}{r}\right)^2 - \left(\frac{r}{r}\right)^2 = \frac{q}{r} \quad HC = r$$

$$\tan 45^\circ = \frac{1}{\sqrt{r}} \quad \frac{AH}{HC} = \frac{1}{\sqrt{r}} \Rightarrow \frac{AH}{q} = \frac{1}{\sqrt{r}} \Rightarrow AH = r\sqrt{r} \quad \sin B = \frac{AH}{r\sqrt{r}} \\ \sin B = \frac{\sqrt{r}}{\sqrt{q}} \times \frac{\sqrt{q}}{\sqrt{q}} = \frac{\sqrt{r}}{\sqrt{q}} \quad B = 45^\circ$$

$$AD = 100 \quad 100^2 - (d \cdot \sqrt{r})^2 = (d \cdot 1)^2 \Rightarrow BD = d \\ AC = d \cdot \sqrt{r} \times r = 100\sqrt{r} \quad BC = (100\sqrt{r})^2 - (d \cdot \sqrt{r})^2 = (d \cdot 1)^2 \quad BC = 100 \quad x = \frac{BC}{AC} - \frac{BD}{AC} = 100 \times \frac{1}{100\sqrt{r}} - \frac{d}{100\sqrt{r}} \\ \cot 45^\circ = \frac{1}{\sqrt{r}} = \frac{AB}{BC} \times BC = r\sqrt{r} \quad 1 + 1 + (r\sqrt{r})^2 = (\sqrt{r})^2 \quad DC = \sqrt{r} \quad \sin x = \frac{BD}{DC} = \frac{1}{\sqrt{r}} \quad \frac{1}{2}$$

$$\frac{AB}{\sin C} = \frac{AC}{\sin B} \Rightarrow \frac{AB}{AC} = \frac{\sin C}{\sin B} = \frac{\sin 100^\circ}{\sin 45^\circ} = \frac{\sin(45^\circ + 55^\circ)}{\sin 45^\circ} = \frac{\sin 45^\circ \cos 55^\circ + \sin 55^\circ \cos 45^\circ}{\sin 45^\circ}$$

$$\frac{\frac{\sqrt{r}}{r} \times \frac{\sqrt{r}}{r} + \frac{1}{r} \times \frac{\sqrt{r}}{r}}{\frac{\sqrt{r}}{r}} = \frac{\frac{\sqrt{q}}{r} + \frac{\sqrt{r}}{r}}{\frac{1}{r}} = \frac{\sqrt{r} + \sqrt{r}}{r}$$

$$\frac{r}{q} = \frac{r \sin B}{q \sin B} = \frac{1 \times r \times r \sin B}{\frac{1}{r} \times q \times r \sin B} = \frac{AEB}{BCD} \quad \text{مساحة}$$

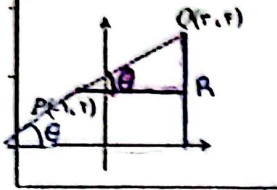
$$r \left(\frac{r}{r} \times \frac{1}{r} \times \sin 45^\circ \right) = 4\sqrt{r}$$

$$\frac{1}{r} \times r \times \frac{r}{r} \times \sin 45^\circ = r\sqrt{r}$$

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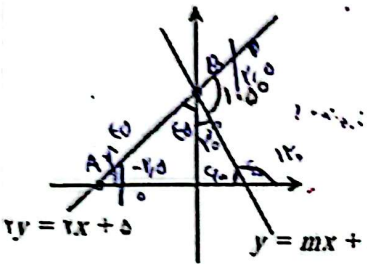
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$$BQ = y \quad PQ^2 = (x')^2 + (y')^2 \Rightarrow PQ = \sqrt{P_0}$$

$$PB = x \quad \cos \theta = \frac{PB}{PQ} = \frac{x}{\sqrt{P_0}} = \frac{y}{\sqrt{a}}$$



$$A = \begin{cases} 1/2x + 5 = 0 \Rightarrow 1/2x = -5 \Rightarrow x = -10 \end{cases}$$

$$B = \begin{cases} 1/2y - 5 = 0 \Rightarrow y = 10 \end{cases}$$

$$m = \tan 110^\circ \quad m = \sqrt{3}$$

$$1/2 \quad y_1 d = b \quad b \times m = \sqrt{3} \times 1/2 = \frac{\sqrt{3}}{2}$$

مساحت المثلث

زاویه

$$f(x) = -\cos(x) + \cos(x) + \cot(x) = \cot x$$

$$10 \quad f\left(\frac{\pi}{4}\right) = \cot \frac{\pi}{4} = \cot 45^\circ = \frac{\sqrt{3}}{1} \times \frac{1}{1} = \sqrt{3}$$

$$\frac{1}{2} \quad \frac{\sin\left(\frac{\pi}{2} + \pi\right) + \cos\left(\frac{\pi}{2} - \pi\right)}{\cos(\pi + \pi) - \sin(-\pi)} = \frac{\cos(x) - \sin(x)}{-\cos(x) + \sin(x)} = -1$$

من هفته ی پیش سایت برام مشکل داشت

وقتی اپلود میکردم، آبی میشد ولی سایت رو که ریلود کردم فایل 15

نبود چند بار تلاش کردم نشد 😞. با آقای عطار صحبت کردم هماهنگ کرد

م گفتن اشکال نداره توی تلگرام براشون بفرستم ولی هرکاری کردم تلگرام

م باز نشد میشه لطفاا حداقل برگمو تصحیح کنین غلطامو بدونم 💕💕

خسته نباشی مرسی 😊

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