FZXiaoBiaoSongB05S

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1. $\sqrt{7+\sqrt{48}}$

2. $\sqrt{23-4\sqrt{33}}$

3. $\sqrt{11+2\sqrt{30}}$

4. $\sqrt{17+12\sqrt{2}}$

5. $\sqrt{43-30\sqrt{2}}$

6. $\sqrt{6+2\left(\sqrt{2}+\sqrt{3}+\sqrt{6}\right)}$

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1. $\sqrt{6+2\left(\sqrt{3}-\sqrt{6}-\sqrt{2}\right)}$

2. $\sqrt{2+\sqrt{9+4\sqrt{2}}}$

3. $\sqrt{p+q+r-2\left(\sqrt{pq}+\sqrt{qr}-\sqrt{qr}\right)}\quad (p,q,r>0)$

4. $\sqrt{\left(17-12\sqrt{2}\right)+\left(22-12\sqrt{2}\right)+\left(113+72\sqrt{2}\right)}$

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1. :

$$\sqrt{(x+2)(x-1)-(x-3)(x+3)-5}\div\sqrt{\frac{x+2}{x}}.$$

2. $x=3+\sqrt{2}, y=3-\sqrt{2}$,

$$\frac{x^4-1}{x-1}+\frac{y^4-1}{y-1}.$$

3. $x^2-\sqrt{10}x+2=0$,

$$x^4+\frac{16}{x^4}.$$

4. :

$$\left(1+\sqrt{2}\right)^6+\left(1-\sqrt{2}\right)^6+\left(1+\sqrt{3}\right)^3+\left(1-\sqrt{3}\right)^3.$$

5. :

$$\left(\frac{\sqrt{5}+1}{2}\right)^{10}+\left(\frac{\sqrt{5}-1}{2}\right)^{10}-\left(\frac{\sqrt{5}+1}{2}\right)^6-\left(\frac{\sqrt{5}-1}{2}\right)^6-\frac{\left(\sqrt{5}+\sqrt{2}\right)^2+\left(\sqrt{5}-\sqrt{2}\right)^2}{\left(2+\sqrt{3}\right)^2+\left(2-\sqrt{3}\right)^2}.$$