

1.  $\sqrt{1\frac{1}{2}} \times 2\sqrt{3}$

2.  $(5 + 2\sqrt{3})(5 - 2\sqrt{3})$

3. 已知 $\sqrt{2} = 1.414, \sqrt{3} = 1.732$ , 求 $\frac{4}{\sqrt{3}-\sqrt{2}}$ 的值

4.  $\sqrt{32} - \sqrt{6} \times \sqrt{3}$

5.  $\frac{1}{\sqrt{3}-\sqrt{2}}$

6.  $\frac{\sqrt{3}+1}{\sqrt{3}-1} - \frac{\sqrt{3}-1}{\sqrt{3}+1}$

7.  $\sqrt{50} + \sqrt{32} - \sqrt{18}$

8.  $(2\sqrt{3} + 5\sqrt{2})(3\sqrt{3} - 7\sqrt{2})$

9.  $3\sqrt{8ab} + \sqrt[3]{54ab} - (2\sqrt{4a})(5\sqrt{2b}) + \sqrt[3]{16ab}$

10. 已知 $\sqrt{2} = 1.414, \sqrt{3} = 1.732$ , , 求 $\frac{\sqrt{8}+\sqrt{6}}{\sqrt{2}}$ 的值

11.  $\frac{20+3\sqrt{10}}{\sqrt{10}}$

12.  $\frac{6}{\sqrt{12}} + \frac{1}{\sqrt{3}+2} - 3\sqrt{\frac{1}{3}}$

13.  $\sqrt{(x + \frac{1}{x})^2 - (x - \frac{1}{x})^2}$

14.  $\frac{\sqrt{108}}{3} + \sqrt{147} - 2\sqrt{48}$

15. 已知 $\sqrt{2} = 1.414$ , 求 $\sqrt{32} - \sqrt{8} + \frac{3}{\sqrt{2}}$ 的值

16.  $(2\sqrt{3} - 3\sqrt{2})^2$

17.  $\frac{\sqrt{66} \times \sqrt{65}}{\sqrt{106} \times \sqrt{165}}$

18.  $5\sqrt{8} - 6\sqrt{2} + 3\sqrt{18}$

19.  $\frac{\sqrt{2}+1}{\sqrt{3}-1} - \frac{3}{\sqrt{2}+1}$

20. 已知 $\sqrt{2} = 1.414, \sqrt{3} = 1.732, \sqrt{5} = 2.236$

a)  $\frac{21}{\sqrt{8}} + \sqrt{5}$

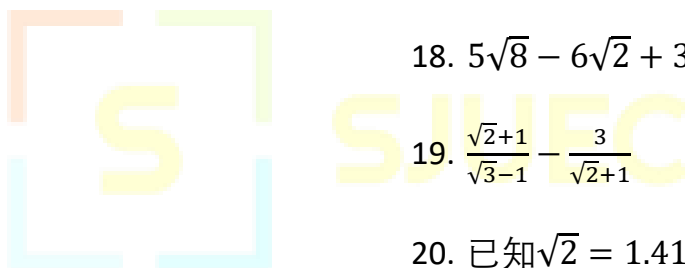
b)  $\frac{\sqrt{10}}{\sqrt{30}-\sqrt{6}}$

21. 设 $a = \frac{\sqrt{5}}{\sqrt{5}+2}, b = \frac{\sqrt{5}}{\sqrt{5}-2}$ , 求

22.  $\sqrt{20} + \sqrt{48} - \sqrt{12} - \sqrt{5}$

23.  $\frac{2}{\sqrt{6}+2}$

24.  $\sqrt{8^2 - 2(7)(8) + 7^2}$



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25.  $\sqrt{45} + \sqrt{125} - 2\sqrt{20}$

