

Radicals worksheet

Solve:

1. $4\sqrt{1} + 3\sqrt{7}$

2. $\sqrt{72} - 9\sqrt{2}$

3. $\frac{-4\sqrt{28}}{\sqrt{4}}$

4. $\frac{7}{-6-\sqrt{3}}$

5. $11\sqrt{28} + \sqrt{7} + 2\sqrt{7}$

6. $-3\sqrt[3]{-3} + 2\sqrt[3]{162} + 3\sqrt[3]{81}$

7. $4\sqrt[6]{3} + 2\sqrt[4]{32} - 3\sqrt[6]{192} - 2\sqrt[6]{192}$

8. $\frac{10}{\sqrt{7}-\sqrt{5}}$

9. $5\sqrt{3} - 3\sqrt{3} + 4\sqrt{8}$

10. $2\sqrt[3]{6} - \sqrt[6]{6} + 3\sqrt[3]{6} - 3\sqrt[6]{384}$

11. $-3\sqrt{24} - \sqrt{6}$

12. $\frac{\sqrt{3}}{9-4\sqrt{10}}$

Answers:

1. $4 + 3\sqrt{7}$

2. $-3\sqrt{2}$

3. $-4\sqrt{7}$

4. $\frac{-42+7\sqrt{3}}{33}$

5. $25\sqrt{7}$

6. $6(\sqrt[3]{3} + \sqrt[3]{6})$

7. $4\sqrt[4]{2} - 6\sqrt[6]{3}$

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

9. $2\sqrt{3} + 8\sqrt{2}$

10. $5\sqrt[3]{6} - 7\sqrt[6]{6}$

11. $-7\sqrt{6}$

12. $\frac{9\sqrt{3}+4\sqrt{30}}{-79}$