

Rewrite the following in root form

1. $x^{2/3}$

2. $x^{1/3}$

3. $x^{4/3}$

4. $x^{1/2}$

5. $x^{5/2}$

6. $x^{7/2}$

7. $x^{1/4}$

8. $x^{5/4}$

9. $x^{7/4}$

Rewrite the following as a function with a rational exponent

1. $\sqrt[3]{x^4}$

2. $\sqrt[3]{x^5}$

3. $\sqrt[3]{x^{10}}$

4. $\sqrt{x^3}$

5. \sqrt{x}

6. $\sqrt{x^9}$

7. $\sqrt[4]{x^3}$

8. $\sqrt[4]{x}$

9. $\sqrt[4]{x^9}$

Write the following with a positive exponent

1. x^{-3}

2. x^{-4}

3. x^{-5}

4. $2x^{-3}$

5. $3x^{-4}$

6. $4x^{-5}$

7. $(2x)^{-3}$

8. $(3x)^{-4}$

9. $(4x)^{-5}$

10. $\frac{2}{3}x^{-3}$

11. $\frac{3}{4}x^{-4}$

12. $\frac{4}{5}x^{-5}$

Rewrite the following with a negative exponent

1. $\frac{1}{x^5}$

2. $\frac{1}{x^7}$

3. $\frac{1}{x^9}$

4. $\frac{4}{x^5}$

5. $\frac{3}{x^7}$

6. $\frac{6}{x^7}$

7. $\frac{1}{4x^5}$

8. $\frac{4}{3x^7}$

9. $\frac{6}{11x^7}$

10. $\frac{1}{(4x)^5}$

11. $\frac{1}{(3x)^7}$

12. $\frac{1}{(11x)^7}$

Write the following with a positive exponent and in root form

1. $x^{-1/5}$

2. $x^{-4/3}$

3. $x^{-5/4}$

4. $2x^{-3/2}$

5. $3x^{-1/3}$

6. $4x^{-1/2}$

7. $(2x)^{-3/2}$

8. $(3x)^{-4/3}$

9. $(4x)^{-1/2}$

10. $\frac{2}{3}x^{-3/2}$

11. $\frac{3}{4}x^{-4/5}$

12. $\frac{4}{5}x^{-5/3}$

Rewrite the following with a negative exponent

1. $\frac{1}{\sqrt{x^5}}$

2. $\frac{1}{\sqrt[3]{x^7}}$

3. $\frac{1}{\sqrt[5]{x^7}}$

4. $\frac{4}{\sqrt{x^5}}$

5. $\frac{3}{\sqrt[3]{x^7}}$

6. $\frac{6}{\sqrt[4]{x^7}}$

7. $\frac{1}{4\sqrt{x^5}}$

8. $\frac{4}{3\sqrt{x^7}}$

9. $\frac{6}{11\sqrt[3]{x^7}}$

10. $\frac{1}{\sqrt{(6x)^5}}$

11. $\frac{1}{\sqrt{(3x)^7}}$

12. $\frac{1}{\sqrt[3]{(11x)^7}}$