



Radicals - Cube - Simplifying from Factors, Values and Variables, Radical

Remaining

1 $\sqrt[3]{2 \cdot 2 \cdot 2 \cdot 2 \cdot r \cdot r \cdot r \cdot r \cdot y \cdot y \cdot y}$

Simplify the radical

- | | | | | |
|--------------------|----------------------|---------------------|-------------------|----------------------|
| A | B | C | D | E |
| $4ry^3\sqrt[3]{r}$ | $4ry^3\sqrt[3]{r^3}$ | $5r^3y\sqrt[3]{5r}$ | $2ry\sqrt[3]{2r}$ | $r^3y\sqrt[3]{4r^3}$ |

2 Simplify the radical

$$\sqrt[3]{3 \cdot 3 \cdot 3 \cdot 11 \cdot m \cdot t \cdot t \cdot t}$$

- | | | | |
|---|---------------------|---|--------------------|
| A | $t\sqrt[3]{12m^2}$ | B | $t\sqrt[3]{8m}$ |
| C | $5t\sqrt[3]{13m^2}$ | D | $t^2\sqrt[3]{12m}$ |
| E | $3t\sqrt[3]{11m}$ | | |

3 $\sqrt[3]{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 5 \cdot x \cdot x \cdot x \cdot w \cdot w}$

Simplify the radical

- | | | | | |
|--------------------|--------------------|----------------------|-----------------|----------------------|
| A | B | C | D | E |
| $4x\sqrt[3]{5w^2}$ | $4x^3\sqrt[3]{3w}$ | $4x^3\sqrt[3]{7w^3}$ | $x\sqrt[3]{5w}$ | $3x^2\sqrt[3]{2w^2}$ |

4 Simplify the radical

$$\sqrt[3]{3 \cdot 3 \cdot 3 \cdot 3 \cdot n \cdot t \cdot t \cdot t \cdot t \cdot t}$$

- | | | | | |
|----------------------|----------------------|----------------------|----------------------|---------------------|
| A | B | C | D | E |
| $4t^2\sqrt[3]{nt^4}$ | $t\sqrt[3]{2n^3t^2}$ | $6t^2\sqrt[3]{n^2t}$ | $t\sqrt[3]{6n^3t^2}$ | $3t\sqrt[3]{3nt^2}$ |

5 $\sqrt[5]{2 \cdot 2 \cdot 2 \cdot 7 \cdot w \cdot w \cdot w \cdot w \cdot p \cdot p \cdot p \cdot p \cdot p}$

Simplify the radical

- | | | | | |
|---------------------|--------------------------|------------------------|---------------------|----------------------|
| A | B | C | D | E |
| $wp\sqrt[3]{6w^3p}$ | $4wp^3\sqrt[3]{5w^3p^2}$ | $5wp\sqrt[3]{5w^2p^4}$ | $wp\sqrt[3]{9wp^3}$ | $2wp\sqrt[3]{7wp^2}$ |

6 $\sqrt[3]{2 \cdot 2 \cdot 2 \cdot 5 \cdot z \cdot z \cdot z \cdot t \cdot t \cdot t \cdot t}$

Simplify the radical

- | | | | | |
|-------------------|----------------------|---------------------|------------------|-------------------------|
| A | B | C | D | E |
| $2zt\sqrt[3]{5t}$ | $z^2t^3\sqrt[3]{7t}$ | $zt^3\sqrt[3]{t^3}$ | $zt\sqrt[3]{4t}$ | $5z^3t^2\sqrt[3]{6t^3}$ |

7 $\sqrt[3]{2 \cdot 2 \cdot 2 \cdot 2 \cdot m \cdot m \cdot m \cdot m \cdot p \cdot p \cdot p}$

Simplify the radical

- | | | | | |
|-------------------|-------------------|----------------------|---------------------|-------------------------|
| A | B | C | D | E |
| $2mp\sqrt[3]{2m}$ | $4mp\sqrt[3]{2m}$ | $m^2p\sqrt[3]{3m^2}$ | $mp^3\sqrt[3]{m^2}$ | $2m^2p^2\sqrt[3]{3m^3}$ |

8 Simplify the radical

$$\sqrt[3]{2 \cdot 2 \cdot 2 \cdot 7 \cdot x \cdot t \cdot t \cdot t \cdot t}$$

- | | | | |
|---|---------------------|---|-----------------------|
| A | $5t\sqrt[3]{5x^3t}$ | B | $2t\sqrt[3]{7xt}$ |
| C | $t\sqrt[3]{9xt^3}$ | D | $3t^3\sqrt[3]{9x^3t}$ |
| E | $t\sqrt[3]{5x^3t}$ | | |