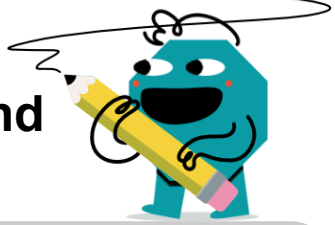
Name

Radicals - Divide Monomials (Values and Variables)



1 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{117yp^4}}{\sqrt{12y^2p^2}}$$

A $\frac{2p\sqrt{39y}}{y^2}$ B $\frac{p\sqrt{39y}}{2y}$ C $\frac{p\sqrt{39}}{y}$

D $\frac{y^{-1}p\sqrt{39y}}{y}$ E $\frac{p\sqrt{39y^{-1}}}{4y}$

2 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{12p^3n^4}}{\sqrt{28p^4}}$$

A $\frac{n^2\sqrt{2p}}{p}$ B $\frac{n^2\sqrt{21p}}{p}$ C $\frac{\sqrt{21p}}{7p^{-1}}$

D $\frac{n^2\sqrt{21p}}{7p}$ E $\frac{pn^2\sqrt{21p}}{7p^{-1}}$

3 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{28z^4d}}{\sqrt{117z^3d^4}}$$

A $\frac{2z\sqrt{91zd}}{39d^4}$ B $\frac{\sqrt{91zd}}{39}$ C $\frac{2\sqrt{91z}}{d^2}$

D $\frac{2\sqrt{91d}}{d^2}$ E $\frac{2\sqrt{91zd}}{39d^2}$

4 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{8p^3x^2}}{\sqrt{275p^3x^4}}$$

A $\frac{\sqrt{22}}{55x^2}$ B $\frac{2\sqrt{22}}{55x}$ C $\frac{\sqrt{22}}{55p^{-2}x}$

D $\frac{3\sqrt{22}}{x}$ E $\frac{\sqrt{22}}{55x^3}$

5 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{99x}}{\sqrt{48nx}}$$

A $\frac{\sqrt{33n}}{4n}$ B $\frac{\sqrt{33n}}{nx^{-2}}$ C $\frac{\sqrt{n}}{4n^2}$

D $\frac{\sqrt{33}}{4}$

6 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{32rd^3}}{\sqrt{80r^4d}}$$

A $\frac{d\sqrt{10}}{5r}$ B $\frac{\sqrt{10r}}{5r^4}$ C $\frac{d\sqrt{10r}}{5r^3}$

D $\frac{d\sqrt{10r^{-1}}}{5r^3}$ E $\frac{d\sqrt{10r}}{5r^2}$

7 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{63x^3}}{\sqrt{45m^4x^2}}$$

A $\frac{x\sqrt{35}}{5m^2x^{-1}}$ B $\frac{2\sqrt{x}}{5m}$ C $\frac{x\sqrt{35}}{5m^3}$

D $\frac{\sqrt{35x}}{5m^2}$ E $\frac{4\sqrt{35x}}{5m^2x^{-1}}$

8 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{44r^2z}}{\sqrt{18r^2z^2}}$$

A $\frac{2\sqrt{22z}}{z}$ B $\frac{\sqrt{22z}}{3z}$ C $\frac{4\sqrt{22z}}{3z^3}$

D $\sqrt{22}$ E $\frac{\sqrt{22}}{3z^{-1}}$