Elementary Algebra Skill

Dividing Radical Expressions of Index 2

Simplify.

1) $\dfrac{\sqrt{12}}{\sqrt{3}}$

2) $\dfrac{\sqrt{75}}{5\sqrt{3}}$

3) $\dfrac{5\sqrt{5}}{4\sqrt{20}}$

4) $\dfrac{3\sqrt{3}}{\sqrt{12}}$

5) $\dfrac{5\sqrt{8}}{4\sqrt{18}}$

6) $\dfrac{\sqrt{6}}{4\sqrt{8}}$

7) $\dfrac{5\sqrt{2u^3v^2}}{\sqrt{18uv^4}}$

8) $\dfrac{3\sqrt{50x^3y^5}}{\sqrt{2xy}}$

9) $\dfrac{\sqrt{6k^2}}{3\sqrt{54k^6}}$

10) $\dfrac{2\sqrt{5xz^3}}{\sqrt{80x^3z}}$

11) $-\dfrac{2\sqrt{15x}}{\sqrt{3x^3}}$

12) $\dfrac{\sqrt{3xy^2}}{\sqrt{25x^3y}}$

Answers to Dividing Radical Expressions of Index 2

1) 2

2) 1

3) $\dfrac{5}{8}$

4) $\dfrac{3}{2}$

5) $\dfrac{5}{6}$

6) $\dfrac{\sqrt{3}}{8}$

7) $\dfrac{5u}{3v}$

8) $15xy^2$

9) $\dfrac{1}{9k^2}$

10) $\dfrac{z}{2x}$

11) $-\dfrac{2\sqrt{5}}{x}$

12) $\dfrac{\sqrt{3y}}{5x}$