

8

$$\left(\frac{36 m^{\frac{1}{4}} n^{\frac{1}{5}}}{m^{-3} n^{\frac{8}{5}}} \right)^{\frac{1}{2}}$$

$$\left(\frac{36 m^{\frac{1}{4}} m^{\frac{3}{1}} n^{\frac{5}{5}}}{n^{\frac{8}{5}}} \right)^{\frac{1}{2}}$$

$$\left(\frac{36 m^{\frac{1}{4}} m^{\frac{3}{1}} m^{\frac{12}{4}}}{n^{\frac{8}{5}}} \right)^{\frac{1}{2}}$$

$$\left(\frac{36 m^{\frac{13}{4}}}{n^{\frac{8}{5}}} \right)^{\frac{1}{2}}$$

$$36^{\frac{1}{2}} \left(m^{\frac{13}{4}} \right)^{\frac{1}{2}}$$

$$\frac{\sqrt{36} m^{\frac{13}{8}}}{n^{\frac{4}{5}}}$$

$$\frac{6 m^{\frac{13}{8}}}{n^{\frac{4}{5}}}$$

9

$$\sqrt[10]{25^6}$$

$$25^{\frac{6}{10}}$$

$$25^{\frac{3}{5}}$$

$$\sqrt[5]{25}$$

$$5$$

10

$$\sqrt{36x^{10}y^{18}}$$

$$6\sqrt{x^{10}y^{18}}$$

$$6(x^{10}y^{18})^{\frac{1}{2}}$$

$$6(x^{10})^{\frac{1}{2}}(y^{18})^{\frac{1}{2}}$$

$$6x^5y^9$$

11

$$\frac{\sqrt[3]{y^5}}{\sqrt{y}}$$

$$\frac{y^{\frac{5}{3}}}{y^{\frac{1}{2}}}$$

$$\frac{y^{\frac{10}{6}}}{y^{\frac{3}{6}}}$$

$$\frac{y^{\frac{7}{2}}}{1}$$

$$y^{\frac{7}{2}}$$

12

$$\sqrt{\sqrt{x^5}}$$

$$\sqrt{(x^5)^{\frac{1}{2}}}$$

$$\sqrt{x^{\frac{5}{2}}}$$

$$\left(x^{\frac{5}{2}}\right)^{\frac{1}{2}}$$

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

$$\sqrt{x}$$

13

$$\sqrt[3]{7} \cdot \sqrt[7]{49}$$

$$7^{\frac{1}{3}} \cdot 49^{\frac{1}{7}}$$

$$7^{\frac{1}{3}} \cdot (7^2)^{\frac{1}{7}}$$

$$7^{\frac{1}{3}} \cdot 7^{\frac{2}{7}}$$

$$7^{\frac{7}{21} + \frac{6}{21}}$$

$$7^{\frac{13}{21}}$$

14

$$5x^{\frac{3}{2}} + 2x^{\frac{1}{2}}(3x-5)$$

$$x^{\frac{1}{2}}[5x^{\frac{2}{2}} + 2(3x-5)]$$

$$x^{\frac{1}{2}}[5x + 6x - 10]$$

$$x^{\frac{1}{2}}(11x - 10)$$

15

$$2(x+3)^{\frac{1}{3}}(5x+2) + 9(x+3)^{\frac{4}{3}}$$

$$(x+3)^{\frac{1}{3}}[2(5x+2) + 9(x+3)^{\frac{3}{3}}]$$

$$(x+3)^{\frac{1}{3}}[10x+4+9(x+3)]$$

$$(x+3)^{\frac{1}{3}}[10x+4+9x+27]$$

$$(x+3)^{\frac{1}{3}}[19x+31]$$