

■ A. Divide

[1] $\frac{3}{4+\sqrt{5}}$

[2] $\frac{2}{\sqrt{2}} + \sqrt{5}$

[3] $\frac{1}{2-3\sqrt{2}}$

■ B. Solve

[1] $\sqrt{x-2} = 3$

[2] $\sqrt{a} + 5 = 0$

[3] $4 - \sqrt{x-2} = 0$

[4] $\sqrt{9x-4} = \sqrt{8x+1}$

■ C. Simplify

[1] $\sqrt{7x^5y^6}$

[2] $\sqrt[3]{24z^5x^9}$

[3] $\sqrt[3]{\frac{y^{10}}{27}}$

[4] $\sqrt[4]{\frac{t^{23}}{16}}$

■ A. Divide

[1] $\frac{12+3\sqrt{5}}{21}$

[2] $\sqrt{2} + \sqrt{5}$

[3] $\frac{2+3\sqrt{2}}{22}$

■ B. Solve

[1] $\{x \rightarrow 11\}$

[2] $\{\}$

[3] $\{x \rightarrow 18\}$

[4] $\{x \rightarrow 5\}$

■ C. Simplify

[1] $\sqrt{7} \sqrt{x^5 y^6}$

[2] $2\sqrt[3]{3} \sqrt[3]{x^9 z^5}$

[3] $\frac{\sqrt[3]{y^{10}}}{3}$

[4] $\frac{\sqrt[4]{t^{23}}}{2}$