

$$(x + y)(x - y) = x^2 + \quad - \quad - y^2 = x^2 - y^2$$

$$\begin{array}{c} (x + y)(x - y) \\ \underbrace{\hspace{1.5cm}} \quad \underbrace{\hspace{1.5cm}} \\ \downarrow \qquad \downarrow \\ - \end{array}$$

$$\begin{array}{c} (a + b)(a - b) \\ \underbrace{\hspace{1.5cm}} \quad \underbrace{\hspace{1.5cm}} \\ \downarrow \qquad \downarrow \\ - \end{array}$$

$$\begin{array}{c} (2a + 3b)(2a - 3b) \\ \underbrace{\hspace{2.5cm}} \quad \underbrace{\hspace{2.5cm}} \\ \downarrow \qquad \downarrow \\ - \end{array}$$

$$\underbrace{(\sqrt{x} + \sqrt{y})}_{\downarrow} \underbrace{(\sqrt{x} - \sqrt{y})}_{\downarrow}$$

—

$$\underbrace{(a + 3)}_{\downarrow} \underbrace{(a - 3)}_{\downarrow}$$

—

$$\underbrace{(2a + \sqrt{3})}_{\downarrow} \underbrace{(2a - \sqrt{3})}_{\downarrow}$$

—

$$\frac{2}{3+\sqrt{2}} \left(\frac{3-\sqrt{2}}{3-\sqrt{2}} \right)$$

$$\frac{2(3-\sqrt{2})}{-}$$

$$\frac{6}{\sqrt{5}-\sqrt{2}} \left(\frac{\sqrt{5}+\sqrt{2}}{\sqrt{5}+\sqrt{2}} \right)$$

$$\frac{6(\sqrt{5}+\sqrt{2})}{-}$$

$$\frac{6(\sqrt{5}+\sqrt{2})}{-}$$