

① Multiply $\frac{2x^2+5x+2}{4x^2-1} \cdot \frac{2x^2+x-1}{x^2+x-2}$

$$\frac{x+1}{x-1}$$

② Simplify each:

$$\sqrt{18}$$

$$\sqrt{48}$$

$$\sqrt{ab} = \sqrt{a} \sqrt{b}$$

$$\sqrt{9 \cdot 2}$$

$$\sqrt{4 \cdot 12}$$

$$\frac{\sqrt{16}}{\sqrt{24}} = \frac{2}{\sqrt{3}}$$

$$\sqrt{9} \sqrt{2}$$

$$\sqrt{4} \sqrt{12}$$

$$3\sqrt{2}$$

$$2\sqrt{4 \cdot 3}$$

$$2\sqrt{4} \sqrt{3}$$

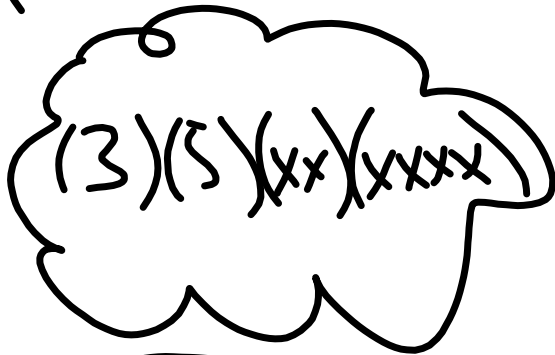
$$4\sqrt{3}$$

$$\sqrt{48}$$

$$\sqrt{16} \sqrt{3}$$

$$4\sqrt{3}$$

$$(3x^2)(5x^4)$$



$$15x^6$$

$$(3\sqrt{2})(5\sqrt{7})$$

$$3 \cdot 5 \sqrt{2} \sqrt{7}$$

$$15\sqrt{14}$$

60



$$\sqrt{96} = \sqrt{9} \sqrt{6}$$

$$(3\sqrt{2})(7\sqrt{6})$$

$$\sqrt{24}$$

$$21 \cdot \sqrt{12}$$

$$21 \cdot \sqrt{4} \sqrt{3}$$

$$21(2\sqrt{3})$$

$$\boxed{42\sqrt{3}}$$

..

$$3\sqrt{12}$$

$$(3)(\sqrt{3})(\sqrt{4})$$

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

$$(6)(\sqrt{3})$$

$$(5 + \sqrt{3})(2 - \sqrt{7})$$

$$10 - 5\sqrt{7} + 2\sqrt{3} - \sqrt{3}\sqrt{7}$$

$$10 - 5\sqrt{7} + 2\sqrt{3} - \sqrt{21} \quad \text{Done}$$

$$(3 - \sqrt{2})(5 + \sqrt{2})$$

$$\sqrt{ab} = \sqrt{a}\sqrt{b}$$

$$15 + \cancel{3\sqrt{2}} - 5\sqrt{2} - \underbrace{\sqrt{2}\sqrt{2}}_{-2}$$

$$15 - 2\sqrt{2}$$

$$- \sqrt{4}$$

$$\boxed{13 - 2\sqrt{2}}$$

$$\frac{x+1}{x-3} \cdot \frac{(x^2-9)}{1} \quad \frac{3}{7} \cdot 5$$

$$\frac{x+1}{\cancel{x-3}} \cdot \frac{(x+3)\cancel{(x-3)}}{1}$$
$$(x+1)(x+3)$$