

## Add and Subtract Rational Expressions

Add or subtract the rational expressions.

$$\frac{7z^2 + 5n^2}{4z^5} + \frac{6z^2 + 4n^2}{4z^5}$$

$$\frac{4s - 9}{6s^3 - 13s} - \frac{8s + 5}{6s^3 - 13s}$$

$$\frac{4k^2 - 5b^2}{2k^6} + \frac{7k^2 - 3b^2}{2k^6}$$

$$\frac{6y^3 - 9c^3}{8y^6c^6} + \frac{6y^3 - 6c^3}{8y^6c^6}$$

$$\frac{5p^2 + 8h^2}{4p^6h^6} - \frac{5p^2 - 3h^2}{4p^6h^6}$$

$$\frac{5q^3 - k^3}{4q^5k^5} - \frac{5q^3 + 6k^3}{4q^5k^5}$$

$$\frac{7z - 5n}{2z^4} - \frac{3z - 8n}{2z^4}$$

$$\frac{4c^4 + 4}{7c^5 - 5} + \frac{3c^4}{7c^5 - 5}$$

## Add and Subtract Rational Expressions

Add or subtract the rational expressions.

$$\frac{7z^2 + 5n^2}{4z^5} + \frac{6z^2 + 4n^2}{4z^5}$$
$$= \frac{13z^2 + 9n^2}{4z^5}$$

$$\frac{4k^2 - 5b^2}{2k^6} + \frac{7k^2 - 3b^2}{2k^6}$$
$$= \frac{11k^2 - 8b^2}{2k^6}$$

$$\frac{5p^2 + 8h^2}{4p^6h^6} - \frac{5p^2 - 3h^2}{4p^6h^6}$$
$$= \frac{11}{4p^6h^4}$$

$$\frac{7z - 5n}{2z^4} - \frac{3z - 8n}{2z^4}$$
$$= \frac{4z + 3n}{2z^4}$$

$$\frac{4s - 9}{6s^3 - 13s} - \frac{8s + 5}{6s^3 - 13s}$$
$$= \frac{-4s - 14}{6s^3 - 13s}$$

$$\frac{6y^3 - 9c^3}{8y^6c^6} + \frac{6y^3 - 6c^3}{8y^6c^6}$$
$$= \frac{12y^3 - 15c^3}{8y^6c^6}$$

$$\frac{5q^3 - k^3}{4q^5k^5} - \frac{5q^3 + 6k^3}{4q^5k^5}$$
$$= \frac{-13}{4q^5k^5}$$

$$\frac{4c^4 + 4}{7c^5 - 5} + \frac{3c^4}{7c^5 - 5}$$
$$= \frac{4z + 3n}{7c^5 - 5}$$