Multiply Rational Expressions

Multiply the rational expressions.

$$\frac{2k-2}{k^2+22k+120} \bullet \frac{k+12}{2k-2}$$

$$\frac{x^2+13x+42}{x+7} \bullet \frac{x+6}{10}$$

$$\frac{11g+11}{g^2+16g+63} \bullet \frac{g+7}{11g+11}$$

$$\frac{n^2+12n+32}{n+4} \bullet \frac{n+8}{2}$$

$$\frac{d^2+14d+33}{d+11} \bullet \frac{d+3}{5}$$

$$\frac{q^2+21q+108}{(q+19)} \bullet \frac{q+12}{2}$$

Multiply Rational Expressions

Multiply the rational expressions.

$$\frac{2k-2}{k^2+22k+120}\cdot\frac{k+12}{2k-2}$$
$$=\frac{1}{k+10}$$

$$\frac{x^2+13x+42}{x+7}\cdot\frac{x+6}{10}$$
$$=\frac{(x+6)^2}{10}$$

$$\frac{11g+11}{g^2+16g+63}\cdot\frac{g+7}{11g+11}$$
$$=\frac{1}{g+9}$$

$$\frac{n^2+12n+32}{n+4}\cdot\frac{n+8}{2}$$
$$=\frac{(n+8)^2}{2}$$

$$\frac{d^2+14d+33}{d+11}\cdot\frac{d+3}{5}$$
$$=\frac{(d+3)^2}{5}$$

$$\frac{q^2+21q+108}{(q+19)}\cdot\frac{q+12}{2}$$
$$=\frac{(q+12)^2}{2}$$