

Find the product:  $\frac{8x-16}{5x^2} \cdot \frac{10x}{4x-8}$

- ① Factor out each numerator and each denominator, if possible (start by looking for a GCF to take out)
- ② "Set up" to multiply by putting each item in the numerator and each item in the denominator next to one another to be multiplied, then cancel out common terms/factors
- ③ Multiply what's left in the numerator, and multiply what's left in the denominator, if possible.
- ④ Take out (factor out) any remaining common terms in the numerator and denominator

Find the product:  $\frac{x+4}{5x} \cdot \frac{9x^2}{x+4}$

- ① Factor out each numerator and each denominator, if possible (start by looking for a GCF to take out)
- ② "Set up" to multiply by putting each item in the numerator and each item in the denominator next to one another to be multiplied, then cancel out common terms/factors
- ③ Multiply what's left in the numerator, and multiply what's left in the denominator, if possible.
- ④ Take out (factor out) any remaining common terms in the numerator and denominator

Find the product:  $\frac{6(x+2)}{20} \cdot \frac{4x}{6(x+2)}$

- ① Factor out each numerator and each denominator, if possible (start by looking for a GCF to take out)
- ② "Set up" to multiply by putting each item in the numerator and each item in the denominator next to one another to be multiplied, then cancel out common terms/factors
- ③ Multiply what's left in the numerator, and multiply what's left in the denominator, if possible.
- ④ Take out (factor out) any remaining common terms in the numerator and denominator

Find the product:  $\frac{3(x+1)}{x+1} \cdot \frac{9x^2}{7}$

- ① Factor out each numerator and each denominator, if possible (start by looking for a GCF to take out)
- ② "Set up" to multiply by putting each item in the numerator and each item in the denominator next to one another to be multiplied, then cancel out common terms/factors
- ③ Multiply what's left in the numerator, and multiply what's left in the denominator, if possible.
- ④ Take out (factor out) any remaining common terms in the numerator and denominator

Find the product:  $\frac{5x+5}{x+3} \cdot \frac{x^2+5x+6}{x+1}$

- ① Factor out each numerator and each denominator, if possible (start by looking for a GCF to take out)
- ② “Set up” to multiply by putting each item in the numerator and each item in the denominator next to one another to be multiplied, then cancel out common terms/factors
- ③ Multiply what’s left in the numerator, and multiply what’s left in the denominator, if possible.
- ④ Take out (factor out) any remaining common terms in the numerator and denominator

Find the product:  $\frac{x+3}{4x} \cdot \frac{2x^2}{4x+12}$

- ① Factor out each numerator and each denominator, if possible (start by looking for a GCF to take out)
- ② “Set up” to multiply by putting each item in the numerator and each item in the denominator next to one another to be multiplied, then cancel out common terms/factors
- ③ Multiply what’s left in the numerator, and multiply what’s left in the denominator, if possible.
- ④ Take out (factor out) any remaining common terms in the numerator and denominator

Find the product:  $\frac{x+3}{x^2-2x} \cdot \frac{x-2}{x^2+4x+3}$

- ① Factor out each numerator and each denominator, if possible (start by looking for a GCF to take out)
- ② "Set up" to multiply by putting each item in the numerator and each item in the denominator next to one another to be multiplied, then cancel out common terms/factors
- ③ Multiply what's left in the numerator, and multiply what's left in the denominator, if possible.
- ④ Take out (factor out) any remaining common terms in the numerator and denominator

Find the product:  $\frac{5x+10}{2x-6} \cdot \frac{x-3}{10x+20}$

- ① Factor out each numerator and each denominator, if possible (start by looking for a GCF to take out)
- ② "Set up" to multiply by putting each item in the numerator and each item in the denominator next to one another to be multiplied, then cancel out common terms/factors
- ③ Multiply what's left in the numerator, and multiply what's left in the denominator, if possible.
- ④ Take out (factor out) any remaining common terms in the numerator and denominator

Find the product:  $\frac{2x+10}{x^2-25} \cdot \frac{2x^2-10x}{4x^2}$

- ① Factor out each numerator and each denominator, if possible (start by looking for a GCF to take out)
- ② “Set up” to multiply by putting each item in the numerator and each item in the denominator next to one another to be multiplied, then cancel out common terms/factors
- ③ Multiply what’s left in the numerator, and multiply what’s left in the denominator, if possible.
- ④ Take out (factor out) any remaining common terms in the numerator and denominator

Find the product:  $\frac{x^2+4x-12}{x^2+7x+10} \cdot \frac{x+5}{2x-4}$

- ① Factor out each numerator and each denominator, if possible (start by looking for a GCF to take out)
- ② “Set up” to multiply by putting each item in the numerator and each item in the denominator next to one another to be multiplied, then cancel out common terms/factors
- ③ Multiply what’s left in the numerator, and multiply what’s left in the denominator, if possible.
- ④ Take out (factor out) any remaining common terms in the numerator and denominator

Find the product:  $\frac{x-3}{2x+8} \cdot \frac{x+4}{x^2+2x-15}$

- ① Factor out each numerator and each denominator, if possible (start by looking for a GCF to take out)
- ② "Set up" to multiply by putting each item in the numerator and each item in the denominator next to one another to be multiplied, then cancel out common terms/factors
- ③ Multiply what's left in the numerator, and multiply what's left in the denominator, if possible.
- ④ Take out (factor out) any remaining common terms in the numerator and denominator

Find the product:  $\frac{x^4}{x^4+5x^3} \cdot (x+5)$

- ① Factor out each numerator and each denominator, if possible (start by looking for a GCF to take out)
- ② "Set up" to multiply by putting each item in the numerator and each item in the denominator next to one another to be multiplied, then cancel out common terms/factors
- ③ Multiply what's left in the numerator, and multiply what's left in the denominator, if possible.
- ④ Take out (factor out) any remaining common terms in the numerator and denominator

Find the product:  $\frac{3x-6}{x^2-x-2} \cdot (x^2 + 6x + 5)$

- ① Factor out each numerator and each denominator, if possible (start by looking for a GCF to take out)
- ② "Set up" to multiply by putting each item in the numerator and each item in the denominator next to one another to be multiplied, then cancel out common terms/factors
- ③ Multiply what's left in the numerator, and multiply what's left in the denominator, if possible.
- ④ Take out (factor out) any remaining common terms in the numerator and denominator

Find the product:  $\frac{x^2+8x+15}{x^2+7x+10} \cdot \frac{x^2-2x-8}{3x^2+9x}$

- ① Factor out each numerator and each denominator, if possible (start by looking for a GCF to take out)
- ② "Set up" to multiply by putting each item in the numerator and each item in the denominator next to one another to be multiplied, then cancel out common terms/factors
- ③ Multiply what's left in the numerator, and multiply what's left in the denominator, if possible.
- ④ Take out (factor out) any remaining common terms in the numerator and denominator

