Simplify and list restrictions.

$\dfrac{-16x^2y^7}{12x^5y^3z^4}$	$\dfrac{\left(-2ab^2\right)^3}{20a^6b^4}$	$\dfrac{24x^5y^2}{\left(2xy\right)^4}$
$\dfrac{x^2-2x-8}{x+2}$	$\dfrac{x+8}{x^2+12x+32}$	$\dfrac{7x^2-35x}{x-5}$
$\dfrac{30x^2-100x}{30x^2-10x}$	$\dfrac{x^2-x-42}{x^2+9x+18}$	$\dfrac{14x^2-6x-20}{14x-8}$
$\dfrac{x^2-49}{x^3-11x^2+28x}$	$\dfrac{2x^2-7x-30}{6x^2+x-35}$	$\dfrac{3x^2-6x-72}{4x^4+8x^3-32x^2}$

Perform the indicated operation, simplify and list restrictions.

$\dfrac{12x^3}{25} \cdot \dfrac{40}{9x^2}$	$\dfrac{6}{x^2-9x+20} \cdot \dfrac{5x-25}{15}$	$\dfrac{6x-18}{4x^2} \cdot \dfrac{x^3}{2x-6}$
$\dfrac{x+3}{4} \cdot \dfrac{x+2}{x^2+4x+3}$	$\dfrac{5}{x+1} \cdot \dfrac{x^2-6x-7}{3x-21}$	$\dfrac{9x+18}{x^2-2x-8} \cdot \dfrac{3x-12}{6x}$
$\dfrac{3x+12}{12x} \div \dfrac{x+4}{48x^3}$	$\dfrac{15x^2}{45x^3} \div \dfrac{5x^6}{9x^4}$	$\dfrac{x^2-2x-8}{8x+24} \div \dfrac{2x-8}{x^2+7x+12}$
$\dfrac{x^2+5x-24}{2x+2} \div \dfrac{2x^2-18}{5x^2-5}$	$\dfrac{x^2-5x-6}{5x+15} \div \dfrac{x^2-3x-4}{7x+21}$	$\dfrac{3x^2-8x-3}{4x^2-1} \div \dfrac{x^2-6x+9}{2x^2+9x-5}$