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| **Simplifying Algebraic Fractions** |
| Simplify each of these algebraic fractions, where possible |
| **(a)** | **(b)** | **(c)** | **(d)** |
| $$\frac{4x^{4}+5x^{2}-7x}{x}$$ | $$\frac{(x+3)(x-2)}{(x-2)(3x-1)}$$ | $$\frac{8x^{4}+4x^{3}-6x}{2x}$$ | $$\frac{(x-2)(x+2)}{x^{2}+x-2}$$ |
| **(e)** | **(f)** | **(g)** | **(h)** |
| $$\frac{x^{2}-x-6}{2x^{2}-5x-3}$$ | $$\frac{x^{2}+9x+20}{(x+4)(x-2)}$$ | $$\frac{x^{2}+2x}{x^{2}+5x+6}$$ | $$\frac{-9x^{6}-12x^{3}-3x}{-3x}$$ |
| **(i)** | **(j)** | **(k)** | **(l)** |
| $$\frac{2x^{2}+7x+6}{(x-5)(x+2)}$$ | $$\frac{x^{2}+6x+8}{3x^{2}+7x+2}$$ | $$\frac{7x^{5}-x^{4}-2}{5x}$$ | $$\frac{2x^{3}-5x^{2}-3x}{2x^{2}-9x+9}$$ |