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Example 5: $\frac{3x^2+7x+2}{3x^2+13x+4}$

Example 6: $\frac{x^2+xy+2x+2y}{x+2}$

Example 7: $\frac{x^3+8}{x+2}$

Example 8: $\frac{49-y^2}{y-7}$