



$$\frac{x^3+6x-9}{x^2+6x+8} = \frac{A}{x+2} + \frac{B}{x+1}$$

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$$\frac{5}{3} - \frac{7}{4}$$

$$\frac{4}{7} + \frac{1}{7}$$

$$\frac{4}{2} + \frac{1}{7}$$

$$\frac{4}{(x-1)(1-x^2)}$$

$$\frac{2(4x^2+1)}{(2x+1)(2x-1)}$$

$$\frac{6}{3} - \frac{7}{4}$$

$$\frac{4}{3} - \frac{1}{7}$$

$$\frac{4+x}{2+x} + \frac{B}{x+1}$$

$$1 + \frac{A}{x-2} + \frac{B}{x+2}$$

$$\frac{3}{28}$$

$$\frac{3}{7}$$

$$\frac{A}{x+2} + \frac{B}{x-1}$$

$$\frac{1}{4} + \frac{3}{7}$$

$$\frac{x^2+4}{x^2-4}$$

$$A + \frac{B}{2x+1} + \frac{C}{2x-1}$$

$$\frac{5}{2} - \frac{7}{1}$$

$$\frac{x}{(x+2)^2(x-1)}$$

$$x + \frac{A}{2x-1} + \frac{B}{2x+1}$$

$$\frac{7}{2} - \frac{7}{1}$$

$$\frac{2}{4-x^2}$$

$$\frac{4}{7} - \frac{3}{4}$$

$$\frac{(4+x)(2+x)}{2}$$

$$\frac{A}{x+1} + \frac{B}{x+2} + \frac{C}{x+3}$$

$$\frac{2}{4x^2-1}$$

$$x-6 + \frac{A}{x+2} + \frac{B}{x+4}$$