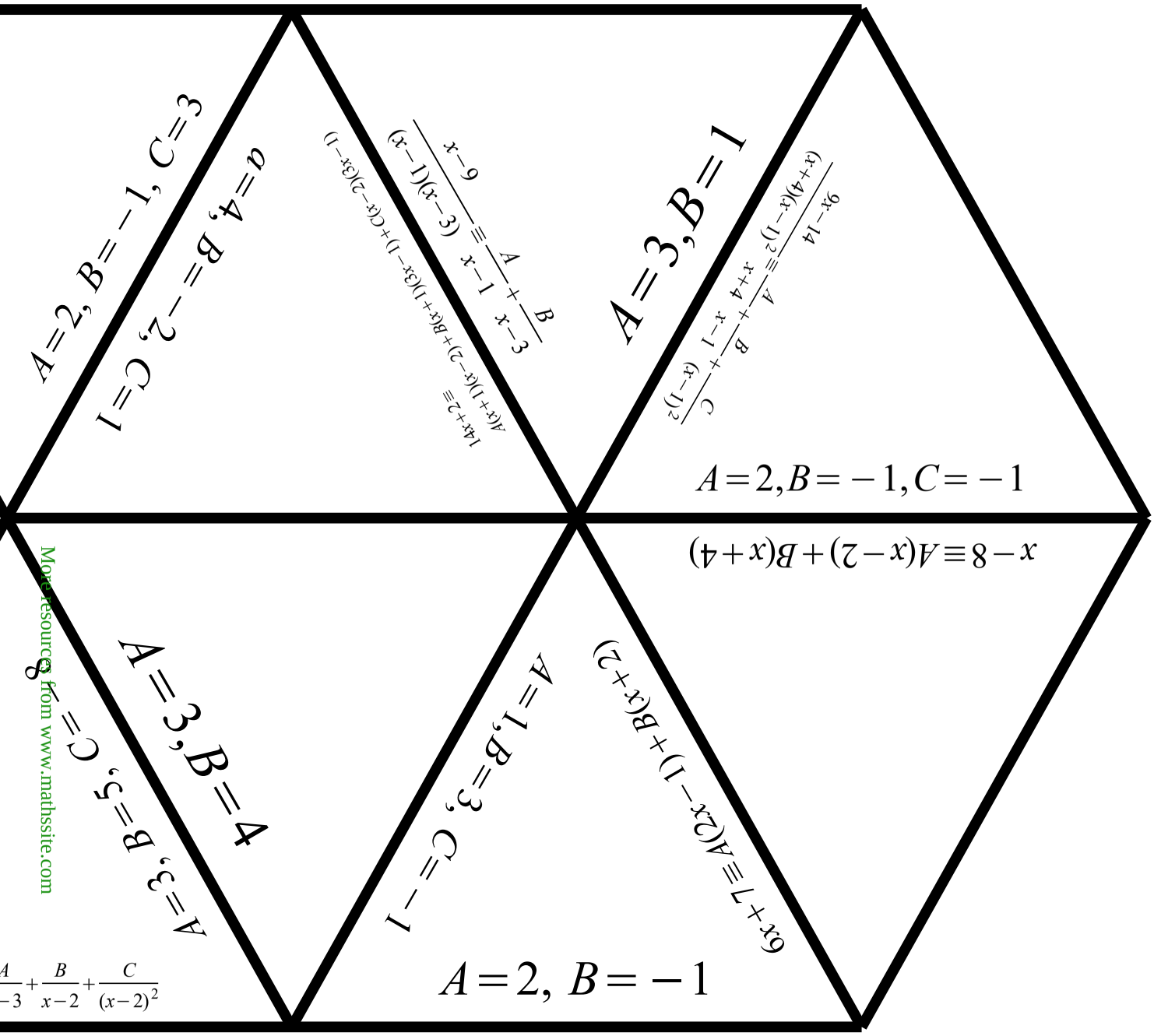

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$$\frac{2}{(x+1)(x+3)} \equiv \frac{A}{x+1} + \frac{B}{x+3}$$

$$A = 1, B = 4$$

$$\frac{x+1}{(x-3)(x-5)} \equiv \frac{A}{x-3} + \frac{B}{x-5}$$

$$A = 3, B = -2$$

$$\frac{3x^2+17x-32}{A(x-1)(x+3)+B(x-1)(x-4)+C(x+3)(x-4)} \equiv$$

$$A = 1, B = -3, C = 4, D = -1$$

$$A = 3,\ B = 4,\ C = 2,\ D = -5$$

$$\frac{9x^3-27x-2}{3x^2-4x-4} \equiv Ax+B+\frac{C}{x-2}+\frac{D}{3x+2}$$

$$A = 2, B = 1,\ C = 6$$

$$\frac{4x-1}{(x+2)(x-1)} \equiv \frac{A}{x+2} + \frac{B}{x-1}$$

$$A = -2, B = 3$$

$$\frac{x+10}{(1+x)(2-x)} \equiv \frac{A}{1+x} + \frac{B}{2-x}$$

$$A = -3, B = 2, C = -1$$

$$\frac{3(x+1)(x-1)}{(x-4)(x+5)} \equiv A + \frac{B}{x-4} + \frac{C}{x+5}$$

$$A = 1, B = 2, C = 3, D = -4$$

$$\frac{x^3-3x^2-x+2}{x^2-4} \equiv Ax+B+\frac{C}{x+2}+\frac{D}{x-2}$$

$$A = 3, B = -2$$

$$\frac{x+1}{(x-3)(x-5)} \equiv \frac{A}{x-3} + \frac{B}{x-5}$$

$$A = 1, B = 4$$

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$$A = -2, B = 3$$

$$\frac{x+10}{(1+x)(2-x)} \equiv \frac{A}{1+x} + \frac{B}{2-x}$$

$$A = 2, B = 1,\ C = 6$$

$$\frac{x^2+3}{(x-3)(x+1)} \equiv A + \frac{B}{x-3} + \frac{C}{x+1}$$

$$A = -3, B = 2, C = -1$$

$$\frac{x^3-3x^2-x+2}{x^2-4} \equiv Ax+B+\frac{C}{x+2}+\frac{D}{x-2}$$

$$A = 1, B = 2, C = 3, D = -4$$

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