

Factor, solve or simplify each expression in Table I. Then, find the corresponding answer in Table II. This will give you a correspondence between a letter and a number. Use this to reveal the mystery phrase.

Mystery phrase

" _ _ _ _ _ , _ _ _ _ _ ; "

1 2 6 7 4 9 6 5 10 1 2 8 1 4 9 3 11 12 9 7

Pratītyasamutpāda (Sanskrit: प्रतीत्यसमुत्पाद), commonly translated as dependent origination.

"This being, that becomes; from the arising of this, that arises. This not being, that does not become; from the ceasing of this, that ceases." Majjhima Nikaya

Table I

| | | | |
|---|--|--|---|
| O simplify $(2x^3 - 5)^2$ | N factor $3y^3 - 27y$ | E Simplify $\left(\frac{1}{2}x^2y^3\right)^3 \cdot \left(\frac{1}{3}x^3\right)^2$ | A factor $16x^2 + 2x + \frac{1}{16}$ |
| T factor $6x^2 + 11x - 10$ | C Solve $1 - 6x = -9x^2$ | B Solve $x^3 + 2x^2 = 9x + 18$ | M Simplify $\left(\frac{1}{2}x^2y^3\right)^3 \div \left(\frac{1}{3}x^4\right)^2$ |
| I factor $x^6 - 27$ | H factor $2xy - 4x^2 - \frac{y^2}{4}$ | S factor $-x - 4 + \frac{x^2}{2}$ | G factor $x^9 + 27y^3$ |

Table II

| | | | |
|---|---|---|--|
| 1 $(3x - 2)(2x + 5)$ | 4 $3, -3, -2$ | 5 $3y(y + 3)(y - 3)$ | 2 $-(2x - \frac{y}{2})^2$ aka $-\frac{1}{4}(y - 4x)^2$ |
| 11 $4x^6 - 20x^3 + 25$ | 3 $\frac{1}{3}$ | 9 $\frac{x^{12}y^9}{72}$ | 6 $(x^2 - 3)(x^4 + 3x^2 + 9)$ |
| 7 $\left(\frac{x}{2} - 2\right)(x + 2)$ aka $(x - 4)\left(\frac{x}{2} + 1\right)$ | 10 $(x^3 + 3y)(x^6 - 3x^3y + 9y^2)$ | 8 $\left(4x + \frac{1}{4}\right)^2$ | 12 $\frac{9y^9}{8x^2}$ |

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Table I

| | | | |
|---|--|--|--|
| O → 11 simplify $(2x^3 - 5)^2$ | N → 5 factor $3y^3 - 27y$ | E → 9 Simplify $\left(\frac{1}{2}x^2y^3\right)^3 \cdot \left(\frac{1}{3}x^3\right)^2$ | A → 8 factor $16x^2 + 2x + \frac{1}{16}$ |
| T → 1 factor $6x^2 + 11x - 10$ | C → 3 Solve $1 - 6x = -9x^2$ | B → 4 Solve $x^3 + 2x^2 = 9x + 18$ | M → 12 Simplify $\left(\frac{1}{2}x^2y^3\right)^3 \div \left(\frac{1}{3}x^4\right)^2$ |
| I → 6 factor $x^6 - 27$ | H → 2 factor $2xy - 4x^2 - \frac{y^2}{4}$ | S → 7 factor $-x - 4 + \frac{x^2}{2}$ | G → 10 factor $x^9 + 27y^3$ |

Table II

| | | | |
|---|---|---|--|
| 1 $(3x - 2)(2x + 5)$ | 4 $3, -3, -2$ | 5 $3y(y + 3)(y - 3)$ | 2 $-\left(2x - \frac{y}{2}\right)^2$ |
| 11 $4x^6 - 20x^3 + 25$ | 3 $\frac{1}{3}$ | 9 $\frac{x^{12}y^9}{72}$ | 6 $(x^2 - 3)(x^4 + 3x^2 + 9)$ |
| 7 $\left(\frac{x}{2} - 2\right)(x + 2)$ | 10 $(x^3 + 3y)(x^6 - 3x^3y + 9y^2)$ | 8 $\left(4x + \frac{1}{4}\right)^2$ | 12 $\frac{9y^9}{8x^2}$ |