

# Algebraic Expressions



Alike terms

Quotients

Powers

Stupid  
questions

Calculate

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Alike terms for 100.



$$a + 2a + 5a - 10a = ?$$

$18a$

$-2a^2$

$-18a$

$-2a$

$a$

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Alike terms for 200.

$$ab + 10ac + 5ab - 10ac = ?$$

$18ab$

$abc$

$6ab - 20ac$

$6ab$

$ab + ac$

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Alike terms for 300.

$$axy + 3yxa - 5xy - 2axy = ?$$

$$-5xy + 2axy$$

$$2axy + 5xy$$

$$5xy + 6axy$$

$$6axy - 5xy$$

$$15ax^2y^2$$

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Alike terms for 400.

$$11x^2y + 3xy^2 - 5xy^2 - 9x^2y = ?$$

$$20x^2y + 2xy^2$$

$$2x^2y - 8xy^2$$

$$2x^2y + 2xy^2$$

$$2x^2y - 2xy^2$$

0

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Quotients for 100.

$$\frac{10x^{20}y^4}{5x^8y^3} = ?$$

$$x^{12}y$$

$$2x^2y^2$$

$$\frac{2x^{10}}{y}$$

$$2x^{12}y$$

$$\frac{2x^8}{y}$$

$$y$$

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# Quotients for 200.



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

$$x + 2$$

$$x^2 + 2$$

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

$$x - 2$$

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

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Quotients for 300.



$$\frac{3x^3 - 3x}{6x^2 - 6x} = ?$$

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

$$\frac{x - 1}{x - 1}$$

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

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

$$\frac{2}{3x^2}$$

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

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Quotients for 400.

$$\frac{2x^2 + 2x - 12}{x^2 + 3x} = ?$$

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

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

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

$$3x$$

$$-4$$

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

$$x$$

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## Powers for 100.



$$a^2 a^3 a^{10} a = ?$$

$$a^{60}$$

$$16a$$

$$a^{16}$$

$$15a$$

$$a^{15}$$

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## Powers for 200.



$$(x^3)^4 = ?$$

$$x^7$$

$$7x$$

$$x^{12}$$

$$x^{81}$$

$$4x^3$$

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## Powers for 300.

Which is true about  $x^{2000}$  for any  $x$  ?

Is more than 1000

Is equal zero

Is negative

Is non negative

Is positive

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Powers for 400.

$$\frac{2^{-2}x^3y^{11}z^{-5}}{2^{-3}x^{-1}y^{11}z^{-6}} = ?$$

$$\frac{1}{\frac{2xz}{2x^4z} \frac{y^{22}}{x^4z} y}$$
$$2x^4yz$$
$$2x^4z$$

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Stupid questions for 100.



$$a^0 = ? \text{ for } a > 0$$

$a$

$0$

$1$

$a^2$

$2a$

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Stupid questions for 200.



$$a/0 = ?$$

0

1

$a$

$1/a$

undefined

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Stupid questions for 300.



$$1^x = ?$$

undefined

$x$

$1 - x$

$-1$

$1$

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Stupid questions for 400.



Let  $a < 0$ . When  $a^x$  makes sense?

Always

Only for  $x > 0$

Only for  $x < 0$

Only for integer  $x$

None of the above

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Calculate for 100.



$$(-1)^{101} = ?$$

101

1

100

1

undefined

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Calculate for 200.



$$((-2)^2)^3 = ?$$

32

64

-12

-32

-64

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Calculate for 300.



$$a + 2a + 3a + \dots + 99a =$$

$$500a$$

$$a + 5000$$

$$5000a$$

$$4950a$$

$$4900a$$

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Calculate for 400.

$$y - 2y + 3y - 4y + 5y - 6y + 7y - 8y =$$

$4y$

$16y$

$-4y$

$-20y$

None of the above

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