



Ekspontenttilausekkeiden yksinkertaistaminen (2
muuttujaa)

Nimi: _____

Päivämäärä: _____ Pisteet: _____

$$\frac{9x^{(-1)} \times y^{(-3)}(x^6 \times y^6)^{(-2)}}{8 \times y^2(x^2)^2}$$

$$\frac{2x^4 \times y^{(-6)}(x^{(-1)} \times y^{(-1)})^4}{9 \times y^3(x^4)^{(-2)}}$$

$$9x^{(-4)} \times y^{(-4)}(x^{(-1)} \times y^{(-3)})^{(-1)}$$

$$2 \times y^3x^{(-2)}(x^4)^4x^2(y^3)^4$$

$$8x^2 \times y^2(x^4 \times y^{(-12)})^3$$

$$\frac{5x^{(-6)} \times y^3(x^3 \times y^3)^4}{6 \times y^{(-3)}(x^2)^{(-2)}}$$

$$6x^4 \times y^4(x^6 \times y^4)^3$$

$$2x^3 \times y^3(x^{(-2)} \times y^{(-12)})^4$$

$$1 \times y^2x^2(x^{(-3)})^5x^2(y^3)^3$$

$$6x^5 \times y^5(x^4 \times y^{(-12)})^6$$



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Nimi: _____

Päivämäärä: _____ Pisteet: _____

$$\frac{9x^{(-1)} \times y^{(-3)}(x^6 \times y^6)^{(-2)}}{8 \times y^2(x^2)^2}$$
$$\frac{9}{8x^{17}y^{17}}$$

$$\frac{2x^4 \times y^{(-6)}(x^{(-1)} \times y^{(-1)})^4}{9 \times y^3(x^4)^{(-2)}}$$
$$\frac{2x^8}{9y^{13}}$$

$$9x^{(-4)} \times y^{(-4)}(x^{(-1)} \times y^{(-3)})^{(-1)}$$
$$\frac{9}{x^3y}$$

$$2 \times y^3x^{(-2)}(x^4)^4x^2(y^3)^4$$
$$2x^{16}y^{15}$$

$$8x^2 \times y^2(x^4 \times y^{(-12)})^3$$
$$\frac{8x^{14}}{y^{34}}$$

$$\frac{5x^{(-6)} \times y^3(x^3 \times y^3)^4}{6 \times y^{(-3)}(x^2)^{(-2)}}$$
$$\frac{5}{6}x^{10}y^{18}$$

$$6x^4 \times y^4(x^6 \times y^4)^3$$
$$6x^{22}y^{16}$$

$$2x^3 \times y^3(x^{(-2)} \times y^{(-12)})^4$$
$$\frac{2}{x^5y^{45}}$$

$$1 \times y^2x^2(x^{(-3)})^5x^2(y^3)^3$$
$$\frac{y^{11}}{x^{11}}$$

$$6x^5 \times y^5(x^4 \times y^{(-12)})^6$$
$$\frac{6x^{29}}{y^{67}}$$