Упрощение выражений экспоненты (2 переменные)

Имя: _____ Дата: _____ Оценка: ____

1) $1 \times y^{(-4)}x^{(-4)}(x^{(-3)})^{(-2)}x^{(-1)}(y^{(-2)})^{5}$

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

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

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

5) $8x^{5} \times y^{5}(x^{2} \times y^{(-12)})^{5}$

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

7) $7 \times y^{2}x^{6}(x^{3})^{(-1)}x^{(-1)}(y^{(-1)})^{5}$

8) $9 \times y^{5}x^{2}(x^{4})^{(-3)}x^{(-3)}(y^{(-1)})^{3}$

9) $\dfrac{5x^{(-4)} \times y^{(-6)}(x^{(-2)} \times y^{(-2)})^{2}}{4 \times y^{3}(x^{(-1)})^{(-1)}}$

10) $\dfrac{5x^{5} \times y^{(-1)}(x^{5} \times y^{5})^{4}}{9 \times y^{2}(x^{(-2)})^{(-2)}}$

Упрощение выражений экспоненты (2 переменные)

Имя: _____ Дата: _____ Оценка: ____

1) $1 \times y^{(-4)}x^{(-4)}(x^{(-3)})^{(-2)}x^{(-1)}(y^{(-2)})^5$

$\frac{x}{y^{14}}$

2) $\frac{5x^{(-4)} \times y^{(-6)}(x^{(-2)} \times y^{(-2)})^2}{4 \times y^3(x^{(-1)})^{(-1)}}$

$\frac{5}{4x^9y^{13}}$

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

$\frac{2x^8}{y^{12}}$

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

$\frac{6}{x^7y^{13}}$

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

$2x^2y$

6) $7 \times y^2x^6(x^3)^{(-1)}x^{(-1)}(y^{(-1)})^5$

$\frac{7x^2}{y^3}$

7) $9x^{(-1)} \times y^{(-1)}(x^4 \times y^6)^{(-1)}$

$\frac{9}{x^5y^7}$

8) $9 \times y^5x^2(x^4)^{(-3)}x^{(-3)}(y^{(-1)})^3$

$\frac{9y^2}{x^{13}}$

9) $8x^5 \times y^5(x^2 \times y^{(-12)})^5$

$\frac{8x^{15}}{y^{55}}$

10) $\frac{5x^5 \times y^{(-1)}(x^5 \times y^5)^4}{9 \times y^2(x^{(-2)})^{(-2)}}$

$\frac{5}{9}x^{21}y^{17}$