Lesson 9

Exponent Rules

Answers

1) $x^{(5+3)} = x^8$

2) $y^{(8-2)} = y^6$

3) $a^{(3*4)} = a^{12}$

4) $12x^{(2+5)} = 12x^7$

5) $2^{(3*2)} = 2^6 = 64$

6) $1 + 1/9 = 10/9$ (or approximately 1.11)

7) $3m^{(7-3)} = 3m^4$

8) $x^6 * x^4 = x^{10}$

9) $6a^6 / (6a^3) = a^3$

10) $1/4 + 1/4 = 2/4 = 1/2$

11) $8x^4 y^6$

12) $27m^6$

13) $3x^4 y^3$

14) $2^{(3+2-4)} = 2^1 = 2$

15) $(x^2)^3 = x^6$

16) $8x^6 * 9x^2 = 72x^8$

17) $5(1)y^3 * 4x^2 y^{(-1)} = 20x^2 y^2$

18) $10^{(-4)} = 0.0001$

19) $a^4 b^6 / (a^3 b) = a b^5$

20) Count $= 2^t$; at $t = 5$: $2^5 = 32$ bacteria