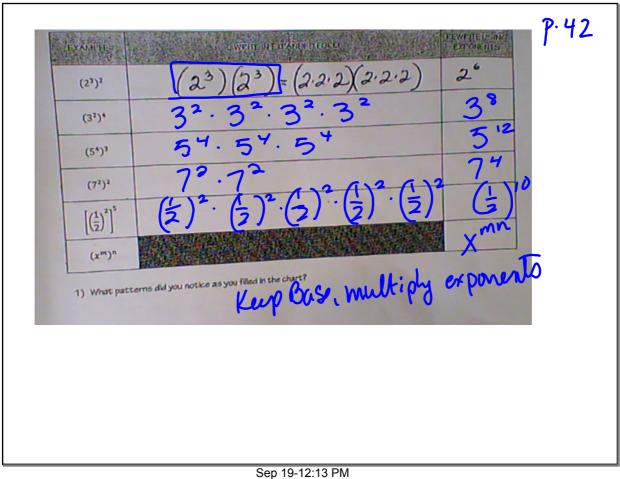
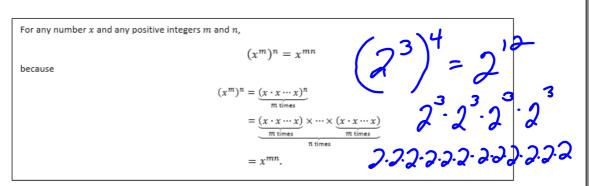


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Lesson 3: Numbers in Exponential Form Raised to a Power ρ . 2

Classwork



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Exercise 1
$$(15^8)^9 = (15)^9$$

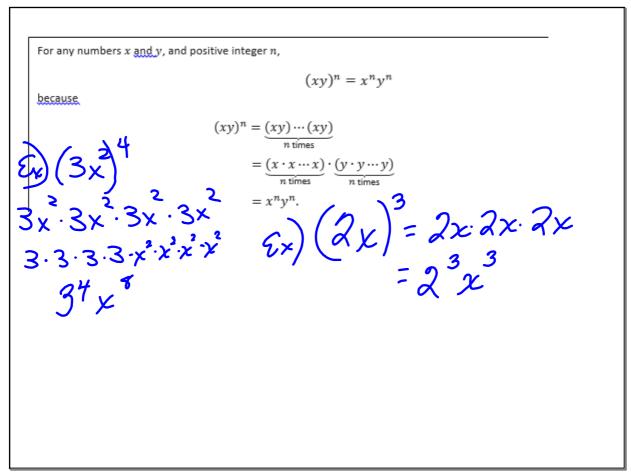
Exercise 5

Sarah wrote $(3^5)^7 = 3^{12}$. Correct her mistake. Write an exponential expression using a base of 3 and exponents of 5, 7, and 12 that would make her answer correct.

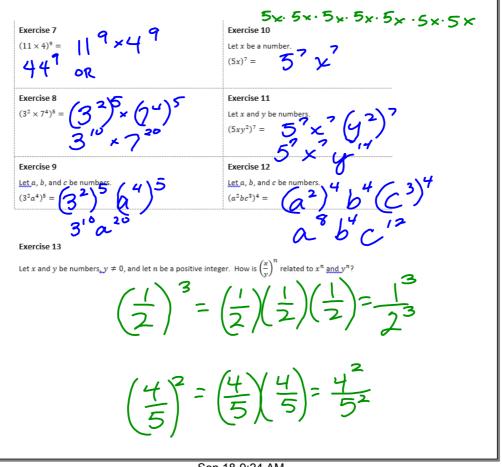
2 that would make her answer correct.

$$\frac{\text{Covrect}}{(3^{5})^{7} = 3^{5 \cdot 7} = 3^{35}}$$

$$\frac{3^{5} \cdot 3^{7} = 3^{12}}{\text{Power Rule}}$$
Product
Rule



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Homework

Write each answer as a base raised to a power or as the product of bases raised to powers that is equivalent to the given one.

- 1. $(9^3)^6 =$
- 2. $(113^2 \times 37 \times 51^4)^3 =$
- 3. Let x, y, z be numbers. $(x^2yz^4)^3 =$

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- 4. Let x,y,z be numbers and let m,n,p,q be positive integers. $(x^my^nz^p)^q=$
- 5. $\frac{4^8}{5^8} =$
- 6. Show (prove) in detail why $(2 \cdot 3 \cdot 7)^4 = 2^4 3^4 7^4$.

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