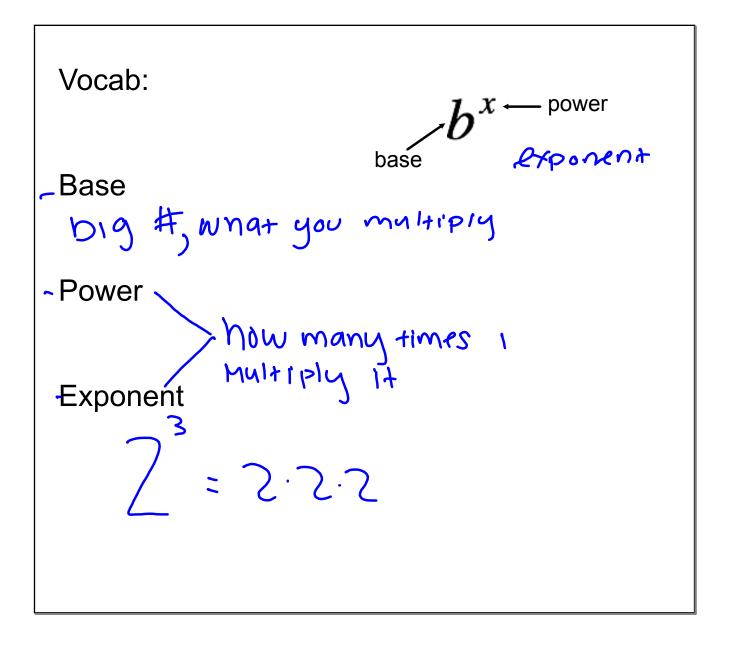
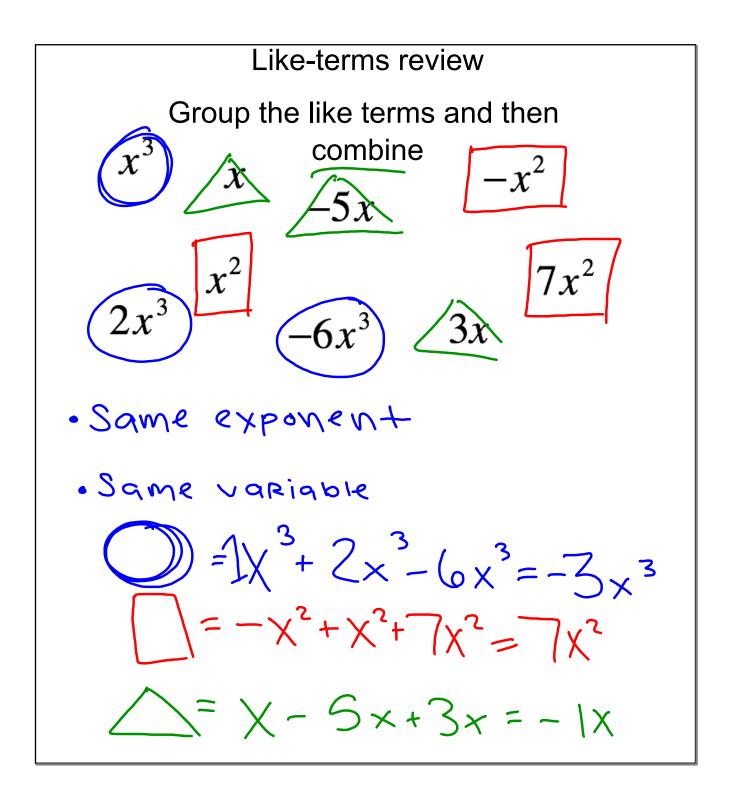
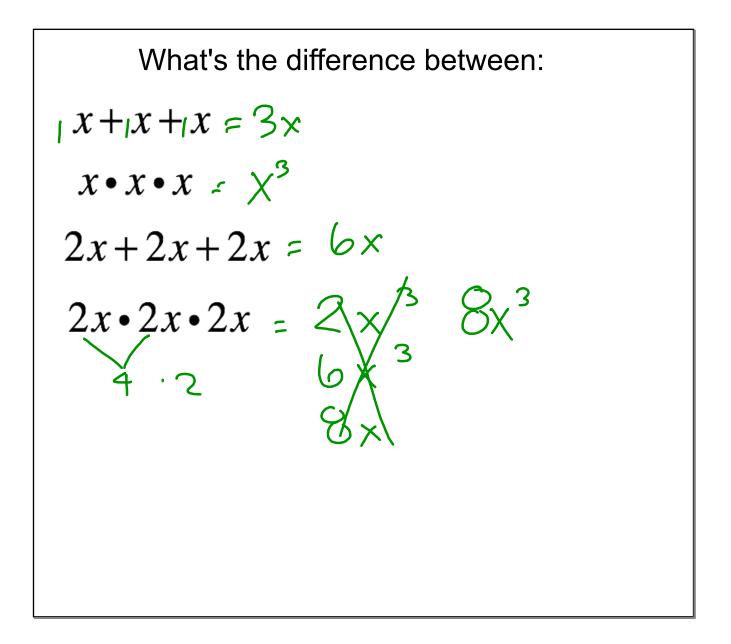
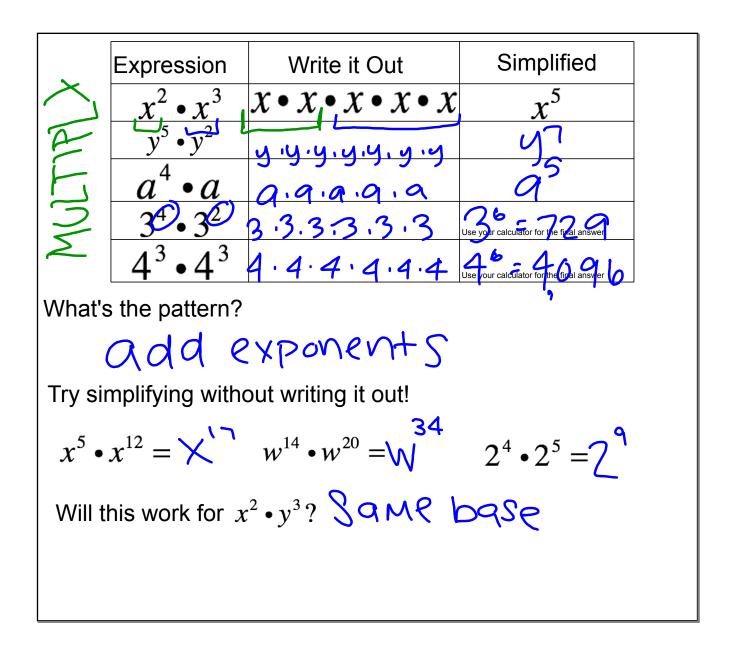
Unit 6: Exponential Functions 6-1: Exponent Rules Objectives: I can simplify exponents

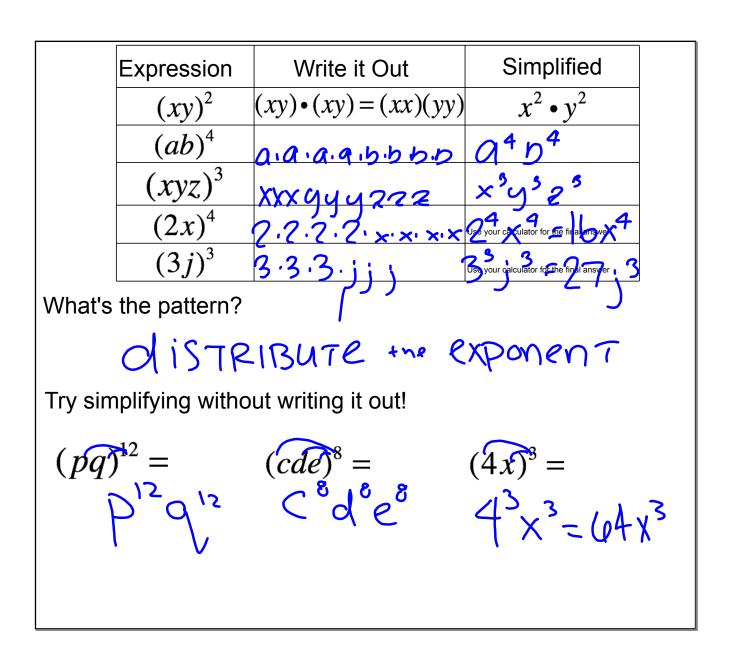




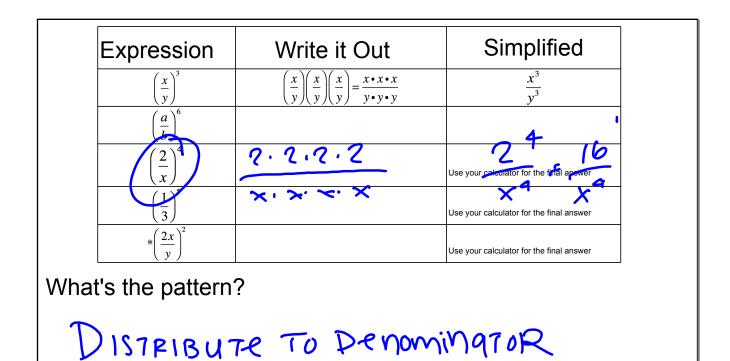


Practice Expanding and Simplifying:	
$x^4 = x \bullet x \bullet x \bullet x$	$x \bullet x \bullet x = x^3$
$x^2 = X \cdot X$	$x \bullet x \bullet x \bullet x \bullet x = \times$
$2^4 = 2 \cdot 2 \cdot 2 \cdot 2$	$5 \cdot 5 \cdot 5 \cdot 5 = 5^4$
$y^5 = y \cdot y \cdot y \cdot y \cdot y \cdot y$	$z \bullet z \bullet z \bullet z \bullet z \bullet z \bullet z = 2^{6}$
$(2a)^3 = ?q \cdot ?q \cdot ?q$	(4y)(4y)(4y)(4y)€4y) ³
$(jk)^5 = jk \cdot jk \cdot jk \cdot jk$	$(ab)(ab)(ab)(ab)(ab) = (9b)^{S}$



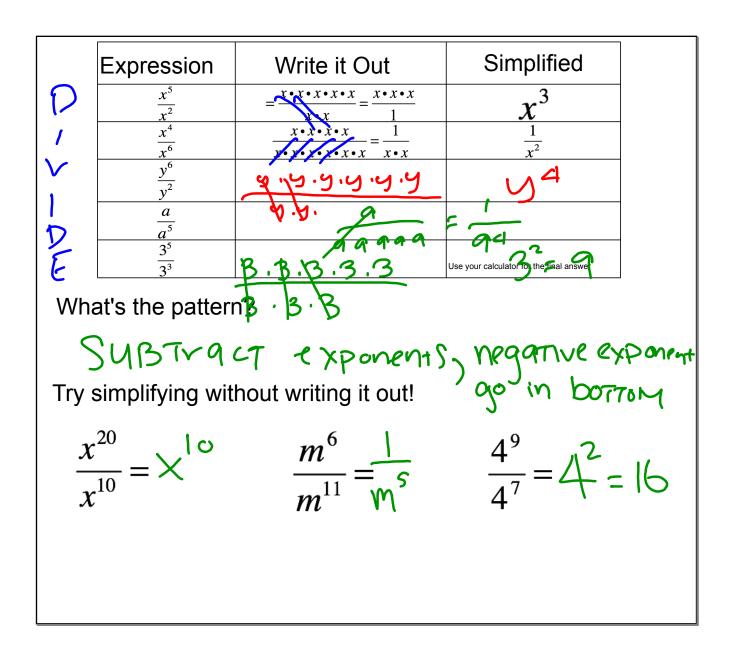


<u>2'</u> 24



 $\left(\frac{a}{4}\right)^5$

Try simplifying without writing it out!



Use your calculator to simplify each of the following:

$$5^{0} = \left(\begin{array}{c} 0.25^{0} = \left(\begin{array}{c} 100^{0} = \left(\begin{array}{c} 1 \\ 123456789^{0} = \left(\begin{array}{c} 1 \\ 17\end{array}\right)^{0} = \right)\right)$$
What's the pattern?
$$\rho \text{over of } \bigcirc = \left(\begin{array}{c} 1 \\ 17\end{array}\right)^{0} = \left(\begin{array}{c} 1 \\ 187^{0} = \left(\begin{array}{c} 1 \\ 17\end{array}\right)^{0} = \left(\begin{array}{c} 1 \\ 187^{0} = \left(\begin{array}{c} 1 \\ 17\end{array}\right)^{0} = \left(\begin{array}{c} 1 \\ 187^{0} = \left(\begin{array}{c} 1 \\ 187^{0} = \left(\begin{array}{c} 1 \\ 187\end{array}\right)^{0} = \left(\begin{array}{c} 1 \\ 187^{0} = \left(\begin{array}{c} 1 \\ 17\end{array}\right)^{0} = \left(\begin{array}{c} 1 \\ 187^{0} = \left(\begin{array}{c} 1 \\ 17\end{array}\right)^{0} = \left(\begin{array}{c} 1 \\ 187\right)^{0} = \left(\begin{array}{c} 1 \\ 187\right)^{0} = \left(\begin{array}{c} 1 \\ 187\end{array}\right)^{0} = \left(\begin{array}{c} 1 \\ 187\right)^{0} = \left(\begin{array}{c} 1 \\ 177\right)^{0} = \left(\begin{array}{c} 1 \\ 187\right)^{0} = \left(\begin{array}{c} 187\right)^$$

