Algebra 2

5-00 Properties of Exponents

Properties of Rational Exponents	
	$x^{m} \cdot x^{n} = x^{m+n}$ $(xy)^{m} = x^{m}y^{m}$ $(x^{m})^{n} = x^{mn}$ $\frac{x^{m}}{x^{n}} = x^{m-n}$ $\left(\frac{x}{y}\right)^{m} = \frac{x^{m}}{y^{m}}$ $x^{-m} = \frac{1}{x^{m}}$
x ⁻⁴ x ³	$((x)^2)^3$
$(3^2x^2y)^2$	$\frac{12x^5a^2}{2x^4} \cdot \frac{2a}{3a^2}$
$\frac{5x^2y^{-3}}{8x^{-4}} \cdot \frac{4x^{-3}y^2}{10x^{-2}z^0}$	
Solve for y: $2x + 3y = 9$	Solve for y: $y + 2xy = 10$

229 #1-3, 230 #1-13 = 16