

Classwork 2 on Properties of Exponents

For #'s1-6 simplify. Write answers with no negative exponents.

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| 1. $-6x \bullet 3x^2$ | 2. $x^2 y \bullet x^{-7} y^{-1}$ |
| 3. $(3xy^{-4})^3$ | 4. $\left(\frac{20x^2 yz^3}{5x^7 yz}\right)^3$ |
| 5. $\left(\frac{2x^{-2}}{y^5}\right)^4$ | 6. $(2x^2 y)^2 (-3xy)$ |

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| 7. Write $x^{\frac{5}{3}}$ in its equivalent radical forms (2 forms). |
| 8. Write $\sqrt[3]{9^2}$ in its equivalent exponential form. |
| 9. Simplify $\sqrt[3]{64^4}$. |
| 10. Simplify $8^{\frac{5}{3}}$. |