Algebra 2: Exponent Practice Worksheet

Simplify the following problems as much as possible so that your answer uses only positive exponents.

1.
$$\frac{(kn)^{-5}}{v^2}$$

2.
$$(x^2y^3)^6$$

3.
$$\frac{32^{-1}}{8^{-1}}$$

4.
$$\frac{-3^{-2}b^2}{a^0b^{-3}}$$

5.
$$\frac{5x^2y^{-3}}{a^{-3}b^4}$$

6.
$$(2x^2y^3)(-5x^{-2}y^7)$$
 7. $(2acd)^3(3cda)$

8.
$$\frac{1}{(2y^2z)^{-3}}$$

9.
$$\left(\frac{2vq^6}{qv^3}\right)^{-2}$$

10.
$$\frac{(5a^2)(6p^3)}{(2a^3)(5^{-1}p)^{-2}}$$

$$\mathbf{m} \cdot \left(\frac{4x}{2x^3}\right)^3$$

12,
$$(-k^{-4}m^7)(3k^3m^{-1})(2k^{-2}m)$$

13.
$$(-zy^{-2})^2(4z^6y^9)^{-2}$$

14.
$$\frac{5^{-2}t^4u^{-3}}{t^{-2}u^6}$$

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$$(-k^{-4}m^2)(3k^3m^{-1})(2k^{-2}m)$$

13.
$$(-zy^{-3})^2(4z^6y^9)^{-2}$$

14.
$$\frac{5^{-2}t^4u^{-3}}{t^{-7}u^6}$$

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M Carnoy

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