More Properties of Exponents

Simplify. Your answer should contain only positive exponents.

1)
$$(x^{-2}x^{-3})^4$$

2)
$$(x^4)^{-3} \cdot 2x^4$$

3)
$$(n^3)^3 \cdot 2n^{-1}$$

 $2n^4$

4)
$$(2v)^2 \cdot 2v^2 = 8v^4$$

5)
$$\frac{2x^2y^4 \cdot 4x^2y^4 \cdot 3x}{3x^{-3}y^2}$$
$$8x^{0}y^{6}$$

6)
$$\frac{2y^3 \cdot 3xy^3}{3x^2y^4}$$

 $\frac{2y^2}{y^2}$

7)
$$\frac{x^3y^3 \cdot x^3}{4x^2}$$

 $\frac{x^4y^3}{4}$

8)
$$\frac{3x^2y^2}{2x^{-4} \cdot 4yx^2}$$

$$\frac{3xy}{8}$$

9)
$$\frac{x}{(2x^0)^2}$$

$$\frac{x}{4}$$

10)
$$\frac{2m^{-4}}{(2m^{-4})^3}$$
 $\frac{m^3}{4}$

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