Exponents

Simplify. Your answer should contain only positive exponents.

$$1) \left(\frac{2 \cdot 2^3}{2}\right)^3$$

$$2) \left(\frac{\left(2^0 \cdot 2^2\right)^4}{2^2} \right)^2$$

3)
$$\frac{(2^0)^2}{(2^3)^4 \cdot 2^2}$$

4)
$$\frac{\left(3^3\right)^0 \cdot \left(3^3\right)^4}{\left(3^3\right)^2 \cdot 3^2}$$

$$5) \ \frac{2^4 \cdot 2^2}{\left(2^0\right)^3}$$

6)
$$\frac{4^2}{((4^2)^4 \cdot (4^3)^3)^2}$$

$$7) \ \frac{4^4}{4^2 \cdot 4^2}$$

8)
$$\frac{4^4 \cdot 4^4}{(4^3)^4}$$

9)
$$\left(\frac{4^2 \cdot 4^0}{4^0}\right)^3$$

10)
$$\left(\frac{4 \cdot 4^3 \cdot 4^3}{4^4}\right)^2$$

2) 2¹²

3) $\frac{1}{2^{14}}$

4) 3⁴

5) 2⁶

6) $\frac{1}{4^{32}}$

7) 1

8) $\frac{1}{4^4}$

9) 4⁶

10) 4⁶