Exponents

Solve the following questions.

1) $2^{13} \times 2^{4}$

2) $3^{2} \times 3^{-7}$

3) $4^{12} \div 4^{8}$

4) $5^{3} \div 125$

5) $343 \div 7^{2}$

6) $\left(\frac{5}{3}\right)^{2} \times \left(\frac{5}{3}\right)^{-2}$

7) $3^{4} \times 5^{4}$

8) $(10^{2})^{3}$

9) $(81)^{4} \div 9^{2}$

10) $\left(\frac{7}{2}\right)^{4} \div \left(\frac{2}{7}\right)^{4}$