Good if you can

1. Write each of the following as a single power of 5

a. $5^2 \times 5^3 =$ **b.** $5^4 \times 5 =$ **c.** $5^6 \times 5^3 =$

2. Write each of the following as a single power of 6

a. $6^5 \div 6^2 =$ **b.** $6^4 \div 6^4 =$ **c.** $6^6 \div 6^5 =$

3. Write each of the following as a single power of 4

a. $(4^2)^3 =$ **b.** $(4^3)^2 =$ **c.** $(4^1)^6 =$

Better if you can

1. Write each of the following as a single power of 3

a. $3^4 \times 3^{-2} =$ **b.** $3^{-6} \times 3^3 =$ **c.** $3^{-1} \times 3^{-2} =$

2. Write each of the following as a single power of 7

a. $7^4 \div 7^{-3} =$ **b.** $7^{-3} \div 7^2 =$ **c.** $7^{-6} \div 7^{-5} =$

3. Write each of the following as a single power of 5

a. $(5^{-2})^4 =$ **b.** $(5^3)^{-3} =$ **c.** $(5^{-5})^{-4} =$

Great if you can

1. Write each of the following as a single power of *x*

a. $x^5 \times x^3 =$ **b.** $x^{-4} \times x^9 =$ **c.** $(x^3)^{-1} =$

d. $x^{11} \div x^6 =$ **e.** $x^7 \div x^{-5} =$