

Name _____

Missing Base or Exponent

Find the value of x in the following expressions.

Using the law product of powers.

1) $5^7 \div 2^x = 125$ $x = 4$	2) $3^x \div 3^2 = 27$ $x = 5$
3) $10^4 \div 10^x = 100$ $x = 2$	4) $4^x \div 4^5 = 64$ $x = 8$
5) $2^6 \div 2^x = 64$ $x = 0$	6) $9^x \div 9^1 = 6561$ $x = 5$
7) $2^x \div 2^5 = 8$ $x = 8$	8) $3^9 \div 3^x = 2187$ $x = 2$