1

Is $10^m < 5{,}000$?

(1) $10^{(m+1)} > 9{,}000$
(2) $10^{(m-1)} = 10^m - 900$

2

If m and n are negative integers what is the value of m*n

(1) $m^n = 1/81$
(2) $n^m = -(1/64)$

3

If x and y are nonzero integers, is $(x^{(-1)} + y^{(-1)})^{(-1)} > (x^{(-1)}*y^{(-1)})^{(-1)}$?

(1) $x = 2y$

(2) $x + y > 0$

4

Is 5^k less than 1,000?

(1) $5^{(k+1)} > 3{,}000$

(2) $5^{(k-1)} = (5^k) - 500$

5

If x, y, and n are positive integers, is $(x/y)^n$ greater than 1,000 ?

(1) $x=y^3$ and $n>y$
(2) $x>5y$ and $n>x$

6

If x, y, and n are positive integers, is $(x/y)^n$ greater than 1,000 ?

(1) $x=y^3$ and $n>y$
(2) $x>5y$ and $n>x$

7

Is $3^{(a^2/b)} < 1$?

(1) $a<0$

(2) $b<0$