Name : _____

Missing Base or Exponent

Find the value of x.

1) $x^6 = 729$

$x =$ _____

2) $-512 = (-2)^x$

$x =$ _____

3) $x^4 = 1,296$

$x =$ _____

4) $4^x = 16$

$x =$ _____

5) $x^3 = 216$

$x =$ _____

6) $-125 = (-5)^x$

$x =$ _____

7) $25 = x^2$

$x =$ _____

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$256 = x^8$

$x =$ _____

10) $2,187 = 3^{-x}$

$x =$ _____

$7^{-x} = 343$

$x =$ _____

13) For what negative val

$x =$ _____

of x, if $9 = 3^x$?

$x =$ _____

15) If $81 = x^4$, then which of these can be the value of x?

    i)   2 or −2   ii)   4 or −4   iii)   3 or −3   iv)   6 or −6