

Name : _____

Missing Base or Exponent

Integers: S1

Find the value of x .

1) $4^x = 1,024$

$x =$ _____

2) $x^2 = 81$

$x =$ _____

3) $-216 = (-6)^x$

$x =$ _____

4) $x^4 = 256$

$x =$ _____

5) $49 = 7^x$

$x =$ _____

6) $x^5 = 3,125$

$x =$ _____

7) $128 = 2^{-x}$

$x =$ _____

8) $8^x = 4,096$

$x =$ _____

9) $(-3)^{-x} = -27$

$x =$ _____

10) $64 = x^6$

$x =$ _____

11) $6^{-x} = 7,776$

$x =$ _____

12) $(-x)^4 = 2,401$

$x =$ _____

13) For what positive value of x , $625 = x^4$?

$x =$ _____

14) What is the value of x , if $(-8)^x = -512$?

$x =$ _____

15) If $5^x = 125$, then which of these can be the value of x ?

i) 5

ii) 3

iii) 4

iv) -4