

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)  $49 = 7^x$

6)  $x^5 = 3,125$

$x =$  \_\_\_\_\_

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

$x =$  \_\_\_\_\_

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

$x =$  \_\_\_\_\_

10)  $64 = x^6$

$x =$  \_\_\_\_\_

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

$x =$  \_\_\_\_\_

13) For what positive value of  $x$ , if  $(-8)^x = -512$ ?

$x =$  \_\_\_\_\_

$x =$  \_\_\_\_\_

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

i) 5

ii) 3

iii) 4

iv) -4

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