

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

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Missing Base or Exponent

Integers: S1

Find the value of x .

1) $4^x = 1,024$

$x =$ **5**

2) $x^2 = 81$

$x =$ **9 or -9**

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

$x =$ **3**

4) $x^4 = 256$

$x =$ **4 or -4**

5) $49 = 7^x$

$x =$ **2**

6) $x^5 = 3,125$

$x =$ **5**

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

$x =$ **-7**

8) $8^x = 4,096$

$x =$ **4**

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

$x =$ **-3**

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$x =$ **2 or -2**

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$x =$ **7 or -7**

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