

Name : _____

Missing Base or Exponent

Integers: S3

Find the value of x .

1) $256 = 2^x$

$x =$ _____

2) $x^9 = 512$

$x =$ _____

3) $(-5)^{-x} = -125$

$x =$ _____

4) $x^8 = 6,561$

$x =$ _____

5) $2,401 = 7^x$

7) $2^x = 32$

$x =$ _____

6) $x^3 = -343$

$x =$ _____

10) $x^4 = 4,096$

$x =$ _____

$6,561 = 9^{-x}$

$x =$ _____

$x^2 = 36$

$x =$ _____

13) What is the value of x

$x =$ _____

If $x, 2^{-x} = 16$?

$x =$ _____

15) If $2,187 = x^7$, then which of these can be the value of x ?

i) 3

ii) -3

iii) 7

iv) -7

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Name : _____

Missing Base or Exponent

Integers: S3

Find the value of x .

1) $256 = 2^x$

$x =$ 8

2) $x^9 = 512$

$x =$ 2

3) $(-5)^{-x} = -125$

$x =$ -3

4) $x^8 = 6,561$

$x =$ 3 or -3

5) $2,401 = 7^x$

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6) $x^3 = -343$

$x =$ -7

7) $2^x = 32$

$x =$ 5

$6,561 = 9^{-x}$

$x =$ -4

10) $x^4 = 4,096$

$x =$ 8 or -8

$6^2 = 36$

$x =$ 6 or -6

13) What is the value of x

$x =$ 2

If $x, 2^{-x} = 16$?

$x =$ -4

15) If $2,187 = x^7$, then which of these can be the value of x ?

i) 3

ii) -3

iii) 7

iv) -7