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 valu

e 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