



Exponents - Power Law - Algebra (Base of X Squared is Power)



1

Solve for x

$$4^{(x^2)} = 2^{32}$$

A	B	C	D	E	F
$x = 11$	$x = 10$	$x = 4$	$x = 2$	$x = 12$	$x = 3$

2

Solve for x

$$25^{(x^2)} = 5^{162}$$

A	B	C	D	E	F
$x = 15$	$x = 9$	$x = 8$	$x = 7$	$x = 18$	$x = 10$

3

Solve for x

$$25^{(x^2)} = 5^{18}$$

A	B	C	D	E	F
$x = 2$	$x = 8$	$x = 7$	$x = 6$	$x = 3$	$x = 12$

4

Solve for x

$$121^{(x^2)} = 11^{128}$$

A	B	C	D	E	F
$x = 11$	$x = 3$	$x = 9$	$x = 14$	$x = 2$	$x = 8$

5

Solve for x

$$49^{(x^2)} = 7^{50}$$

A	B	C	D	E	F
$x = 1$	$x = 7$	$x = 2$	$x = 3$	$x = 6$	$x = 5$

6

Solve for x

$$49^{(x^2)} = 7^{162}$$

A	B	C	D	E	F
$x = 3$	$x = 1$	$x = 13$	$x = 15$	$x = 4$	$x = 9$

7

Solve for x

$$9^{(x^2)} = 3^{162}$$

A	B	C	D	E	F
$x = 17$	$x = 16$	$x = 13$	$x = 9$	$x = 1$	$x = 6$

8

Solve for x

$$16^{(x^2)} = 2^{36}$$

A	B	C	D	E	F
$x = 5$	$x = 3$	$x = 2$	$x = 12$	$x = 6$	$x = 4$