Original Equation in x	Substitution	Quadratic in y	Solutions for y	Solutions for <i>x</i>
$x^4 - 10x^2 + 21 = 0$	$y = x^2$	$y^2 - 10y + 21 = 0$	<i>y</i> = 7, <i>y</i> = 3	$x = \pm \sqrt{7}, \pm \sqrt{3}$
$x^6 = 7x^3 + 8$	$y = x^3$		y = 8, y = -1	
$x - 3\sqrt{x} - 10 = 0$				x = 25, x = 4
$2^{2x} - 6 \times 2^x + 8 = 0$	$y = 2^x$			
$\sqrt{x} + \frac{1}{\sqrt{x}} = 2$				
\sqrt{x}				
$9^x - 28 \times 3^x + 27 = 0$				
$x\sqrt[3]{x} - 13x^{\frac{2}{3}} + 36 = 0$	$y = x^{\frac{2}{3}}$			
$x^3 + 9x + \frac{20}{x} = 0$				
λ				
$\left(x-\frac{6}{x}\right)^2-6\left(x-\frac{6}{x}\right)+5=0$	$y = \left(x - \frac{6}{x}\right)$			

Original Equation in x	Substitution	Quadratic in y	Solutions for y	Solutions for x
$x^4 - 10x^2 + 21 = 0$	$y = x^2$	$y^2 - 10y + 21 = 0$	y = 7, y = 3	$x = \pm \sqrt{7}, \pm \sqrt{3}$
$x^6 = 7x^3 + 8$	$y = x^3$	$y^3 - 7y - 8 = 0$	y = 8, y = -1	x = 2, x = -1
$x - 3\sqrt{x} - 10 = 0$	$y = \sqrt{x}$	$y^2 - 3y - 10 = 0$	y = 5, y = -2	x = 25, x = 4
$2^{2x} - 6 \times 2^x + 8 = 0$	$y = 2^x$	$y^2 - 6y + 8 = 0$	y = 2, y = 4	x = 1, x = 2
$\sqrt{x} + \frac{1}{\sqrt{x}} = 2$	$y = \sqrt{x}$	$y^2 - 2y + 1 = 0$	y = 1	<i>x</i> = 1
VX		2		
$9^x - 28 \times 3^x + 27 = 0$	$y = 3^x$	$y^2 - 28y + 27 = 0$	y = 27, y = 1	x = 3, x = 0
$x\sqrt[3]{x} - 13x^{\frac{2}{3}} + 36 = 0$	$y = x^{\frac{2}{3}}$	$y^2 - 13y + 36 = 0$	y = 4, y = 9	x = 8, x = 27
20	2	2		
$x^3 + 9x + \frac{20}{x} = 0$	$y = x^2$	$y^2 + 9y + 20 = 0$	y = -4, y = -5	No real solutions
- 2				
$\left(x-\frac{6}{x}\right)^{2}-6\left(x-\frac{6}{x}\right)+5=0$	$y = \left(x - \frac{6}{x}\right)$	$y^2 - 6y + 5 = 0$	y = 1, y = 6	x = -2, x = -1, x = 3, x = 6