

משוואות מעריכיות – 004

$3^x + 3 \cdot 3^{-x} = \frac{28}{3}$	.2	$4^{x+6} \cdot \left(\frac{1}{2}\right)^{4(5-x)} = 2^{6-x}$	.1
$3 \cdot 3^{x+2} - 4 \cdot 5^x = 2 \cdot 3^x + 5^{x+1}$	*.4	$4^{3x+1} = 2 \cdot 7^{3x+0.5}$	.3
$(9\sqrt{3})^{x+1} = \left(\frac{1}{81}\right)^{\frac{3}{4}x-2}$	.6	$(2 \cdot \sqrt{2})^x = \left(\frac{1}{4}\right)^{\frac{-x}{2}+2}$	.5
$12 \cdot 7^x + 12 \cdot 7^{-x} = 25$	.8	$3 \cdot 4^x + 4 \cdot 6^x = 4 \cdot 9^x$	*.7
$6^x + 3^{x+1} \cdot 2^x = 144$	.10	$3^{x+8} = 21^{2x+4} \cdot 7^{-3x}$	*.9
$3 \cdot 4^{x+1} - 11 \cdot 4^{\frac{1}{2}x-\frac{1}{2}} = 170$	.12	$10^x + 2^{x+3} \cdot 5^x = 900$	.11
$x\sqrt[3]{16} = 64^2 \left(\frac{1}{4}\right)^x$	.14	$36 \cdot 6^{2(x^2-1)} = 6^{x-1} \cdot 6^{2x+1}$	.13
$4^{2x+1} - 3 \cdot 4^{x+1} - 16 = 0$	.16	$8^{x+1} - 10 \cdot 2^{3x-1} = 12$	.15
	.18	$4^x - 17 \cdot 2^{x-1} + 4 = 0$	.17
	.20		.19