$4^{2x}=100$

-3.22

1.66

0.431

$5^x=2$

12

2.10

$3^x=10$

6.23

$2^x=75$

$5^{2x}+7(5^x)-30=0$

$9^{x+5}=50$

$2\log_3 x-\log_3(x+4)=2$

0.68

1.31

-3.24

$7^{2x-1}=23$

6

$\log_3 x=2$

$0.25, 1.5$

$3+2\log_2 x=\log_2(14x-3)$

$\frac{1}{3}, -2$

$\log_{(2-3x)}{}^{1}\log_2(6x-19x+2)$

$4x-2^{x+1}-15=0$

2.32

0.2966

$7^{x+1}=3^{x+2}$

$3^x=70$

$\log_3 x-\frac{2}{\log_3 x}=1$

$\log_4 x=2$

$3^{x-1}=8^{x+1}$

2.52

$\log_3 x=4\log_x 3$

$\frac{1}{9}, 9$

-0.0617

$2^{2x+3}=3^{3x+2}$

$\log_4 x+\frac{2}{\log_4 x}+3=0$

$0.25, \frac{1}{16}$

$0.5, 512$

$\log_2 x=8+\frac{x^2\log}{6}$

$\frac{1}{3}, 9$

$\log_3 x+6\log_x 5=5$

$25, 125$

$7^{2x}+12=7^{x+1}$

$0.565, 0.712$

2.73

$3^{2x}+3^{x+1}-10=0$

$2^{2x+1}=3(2^x)-1$

1.42

$8^{3-x}=10^x$

$-1, 0$

0.631

$5^{2x}-6(5^x)-7=0$

1.21

$3^{2x}-15(3^x)+44=0$

$1.26, 2.18$

$0, 2.32$

$2^{2x}-6(2^x)+5=0$

-0.542

$5^{x+1}=4^{3-3x}$