

## EJERCICIOS EXTRA

Resuelve:

1.  $7^{3x-2} = 1$  {2/3}
2.  $3^x - 3^{1-x} = 2$  {1}
3.  $2^{2x} - 2^x = 12$  {2}
4.  $\left(\frac{5}{2}\right)^{x^2-2} \geq \left(\frac{5}{2}\right)^x$   $(-\infty, -1] \cup [2, +\infty)$
5.  $\left(\frac{1}{2}\right)^{x^3-1} > \left(\frac{1}{2}\right)^{2x-1}$   $(-\infty, -\sqrt{2}) \cup (0, \sqrt{2})$
6.  $\log_5 x = -1$  {1/5}
7.  $\log_3 (\log_5 x) = -1$  { $\sqrt[3]{5}$ }
8.  $3^{2x} - 5 = 11$  { $\log 16 / \log 9$ }
9.  $3^{2x \cdot 1} - 5 = 11$  { $\log 16 / \log 9 - 1/2$ }
10.  $\log_3 (2 \cdot 3^x - 9) = x$  {2}
11.  $\log (x + 6) - \log (2x - 1) = 0$  {7}
12.  $\log_3 (x + 2) + \log_3 (x - 4) = 3$  {7}