Examples – Changing the Bases

Example 1 Find the value of x; $2^5 = 2^{2x-1}$

Example 2 Find the value of x; $5^x = 125$

Example 3

Solve:
$$2^{6x^2} = 4^{5x+2}$$

Example 4

Solve for x. $9^{3x} = 27^{x-2}$

$$9^{3x} = 27^{x-2}$$

Example 5 Solve for n. $9^{n-1} = (1/3)^{4n-1}$

Example 5 Solve: $4(2^x) - 6 = 58$