# LOGARITMOS EJERCICIOS DE LOGARITMOS



3. 
$$Log\sqrt{2} 32 =$$

5. 
$$Log_2 = 64$$

6. 
$$Log(2x-4) = 2$$

7. 
$$Log360 (36*10) =$$

# LOGARITMOS SOLUCIÓN:

1.Log<sub>3</sub> 27= 3\*3\*3=27 Por lo tanto, Log<sub>3</sub> 27=3

2\*2\*2\*2\*2\*2\*2

Por lo tanto, Log<sub>2</sub> 128=7

$$3.\text{Log}\sqrt{2} \ 32 =$$

$$\log_{\sqrt{2}} 32 = y \Leftrightarrow (\sqrt{2})^y = 32 \Leftrightarrow \left(2^{\frac{1}{2}}\right)^y = 2^5 \Leftrightarrow 2^{\frac{y}{2}} = 2^5 \Leftrightarrow \frac{y}{2} = 5 \Leftrightarrow y = 10$$

Por tanto,  $\log_{\sqrt{2}} 32 = 10$ 

4.Log4=

$$=2Log2$$

$$5.Log_2 = 64$$

#### Por lo tanto, $Log_2 6 = 64$

## 6.Log (2x-4) = 2

$$102 = 2x-4$$

$$100 = 2x - 4$$

$$100+4=2x$$

$$104 = 2x$$

$$104/2 = x$$

$$52 = x$$

### 7.Log360 (36\*10) =

$$Log 36 + Log 10 = Log (2^2 * 3^2) + 1 =$$

$$Log 2^2 + Log 3^2 + 1 =$$

$$=2Log2+2Log3+1=2*0,301+2*0,477+1=2,556$$