## Power statement

Log statement

 $C) 10_{e} = 1000000$ 

d) 11'=11

e) 0.23 = 0.008

log 4 256 = 4

109101000000 = 6

 $\log_{0.2}0.00\% = 3$ 

Log statement

Power statement

a, log216 =4

b) 109525 = 2

c) log = 3= +

d) logs 0.2=-1

)  $\log_{10}\log_{10}\cos 00 = 5$ 

$$5^2 = 25$$

$$\frac{1}{4} = (\frac{1}{16})^{1} = 16$$

$$a^{10} = a^{10}$$

$$\int Log_{(\frac{3}{3})}\left(\frac{q}{4}\right) = -2$$

$$\left(\frac{2}{3}\right)^{-2} = \left(\frac{4}{9}\right)^{-1} = \frac{9}{4}$$

(4) a) 
$$\log_5 x = 4$$
  $5^4 = 625 = x$   $\therefore x = 625$ 

b) 
$$\log_{x} 81 = 2$$
  $x^{2} = 81$   
:  $x = 9$ 

c) 
$$Log_7 x = 1$$
  $7' = x$ 

d) 
$$\log_{x}(2x) = 2$$
  
 $x^{2} = 2x$   
 $x^{2} - 2x = 0$   
 $x(x-2) = 0$   
 $x = 0$  or  $x = 2$