

Name _____

Missing Base or Exponent

Find the value of x in the following expressions.

1) $3^{2x} = 81$ $x = 2$	2) $2^{3x-1} = 256$ $x = 3$
3) $6^{2x} = 36$ $x = 1$	4) $2^{x+3} = 64$ $x = 1$
5) $10^{x+1} = 1000$ $x = 2$	6) $7^{2x} = 49$ $x = 1$
7) $5^{x-1} = 125$ $x = 4$	8) $9^{x+1} = 729$ $x = 2$