LOGARITHMIC EQUATIONS

NAME: _____

Solve the following logarithmic equations.

(01). $\dfrac{\log_2(x)+1}{\log_2(x)+3}=\dfrac{4}{5}$

(02). $\log_2(x)\,.\log_3(x+3)=0$

(03). $[\log_5(x+8)]^2=0$

(04). $9[\log_3(x)]^2-27[\log_3(x)]=0$

(05). $2[\log_5(x)]^2=6[\log_5(x)]$

(06). $[\log_2(x+3)]^2=4$

(07). $4[\log_3(x)]^2-1=0$

(08). $[\log_2(x)\,.[2\log_2(x)-3]=0$

(09). $[\log_2(x+1)]^2=25$

(10). $[\log_2(x)]^2-3\log_2(x)+2=0$

(11). $[\log_5(x)]^2+2\log_5(x)=0$

(12). $[\log_5(x+2)-2].[\log_3(x-8)-3]=0$

(13). $\log_6(x+1)+\log_6(x+5)=3$

(14). $\log_2(x-3)+\log_2(x)=2$