2. [11 points] Solve all the following equations algebraically. Your answers must be written in exact form. Show all your work to receive full credit.
a. [3 points] $10^{3 \log (x)}=7$
$\qquad$

$$
x=
$$

b. $[4$ points $] \log (27 y)-\log (2 y+1)=1$
$\qquad$

$$
y=
$$

c. [4 points] $z \ln (7 z+17)=0$
$\qquad$

