7. [12 points] Solve each of the equations below. Show your work step-by-step and write the solutions in exact form in the answer blanks provided.
a. [3 points] $\quad 5(1.7)^{2 y}=2.4$

Answer: $y=$
b. $[3$ points $] \quad 3 t-1=\log \left(2(10)^{4.6 t}\right)$

Answer: $t=$ $\qquad$
c. [3 points] $\quad e^{\ln (w-4)}=\ln (3.2)-\ln (4)$

Answer: $w=$ $\qquad$
d. [3 points] $\log (2 p+1)-\log (p-3)=3$

Answer: $p=$

