Problem 8 is straightforward. You should use technology such as dfield or HPGSolver to do the plotting.

In Problem 24, combine parts a and b into a single plot; this can be done nicely using HPGSolver and its built-in step function

$$
\operatorname{step}(t)= \begin{cases}0, & t<0 \\ 1, & t>0\end{cases}
$$

or dfield and its built-in signum function

$$
\operatorname{sign}(t)= \begin{cases}-1, & t<0 \\ +1, & t>0\end{cases}
$$

In particular, show the graphs of the solutions for the initial conditions $p(0)=1,10,20$, 30,40 . In part c, find formulas only for the solution with the initial condition $p(0)=30$. You may use Mathematica. In part d, describe the behavior only for the solution with the initial condition $p(0)=30$. Be precise.

