4. [15 points] For each of the following, find explicit, real-valued solutions, as indicated.
a. $[7$ points $]$ Find the general solution to $y^{\prime}=7-\frac{\cos (t)}{2+\sin (t)} y$.
b. [8 points] Solve the initial value problem: $\frac{y}{t^{2}+5} y^{\prime}=1, y(0)=-2$
