$\qquad$

Find $v_{D S}$ in each of the circuits shown below. The NMOS transistors have $V_{T n}=1 \mathrm{~V}$ and $K_{n}=0.5 \mathrm{~mA} / \mathrm{V}^{2}$. The PMOS transistors have $V_{T p}=-1 \mathrm{~V}$ and $K_{p}=0.25 \mathrm{~mA} / \mathrm{V}^{2}$

$v_{D S}=$ $\qquad$ $v_{D S}=$ $\qquad$


$v_{D S}=$ $\qquad$ $v_{D S}=$ $\qquad$

