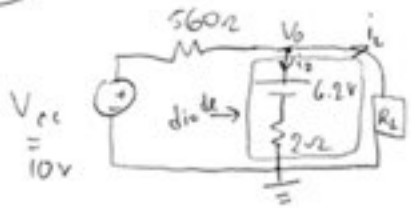
P2




$i_2 = \frac{10-6.2}{560} = 6.7mA$

↳ $V_0 = V_{cc} \cdot i_2$

$V_0 = 6.2V$

$i_2 = 6.7mA - i_L$ (KCL)

When $i_2 < 7mA$: open circuit, so $V_0 = 6.2$ for $1mA \leq i_L \leq 5_{mA}$

$V_0 = 10 - (560) i_L$

for $i_L = 6mA$: $V_0 = 6.64v$

for $i_L = 7mA$: $V_0 = 6.08v$

for $i_L = 8mA$: $V_0 = 5.52v$

| $i_L$ [mA] | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| $V_0$ [V] | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.64 | 6.08 | 5.52 |