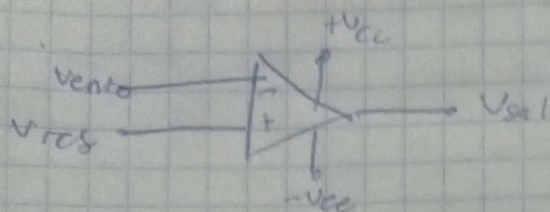


Actividad 5. Comparadores



$$+V_{sat} = aV = 90\% \cdot V_{cc} \Rightarrow V_{cc} = 10V$$

$$-V_{sat} = -aV = 90\% \cdot V_{cc} \Rightarrow -V_{cc} = -10V$$

$$V_{ent} = 1V$$

$$V_d = V^+ - V^- = 5V - 1V = 4V > 0$$

$$V_{sat} = +V_{sat} = 9V$$

$$V_{ent} = 3V$$

$$V_d = V^+ - V^- = 5V - 3V = 2V > 0$$

$$V_{sat} = +V_{sat} = 9V$$

$$V_{sat} = +V_{sat} = 9V$$

$$V_{ent} = 5V$$

$$V_d = V^+ - V^- = 5V - 5V = 0V$$

$$V_{sat} = \pm V_{sat} = \pm 9V$$

$$V_{ent} = 7V$$

$$V_d = V^+ - V^- = 5V - 7V = -2V < 0$$

$$V_{sat} = -V_{sat} = -9V$$

$$V_{ent} = 9V$$

$$V_d = V^+ - V^- = 5V - 9V = -4V < 0$$

$$V_{sat} = -V_{sat} = -9V$$

| V_{ent} | V_{sat} |
|-----------|-----------|
| 1V | 9V |
| 3V | 9V |
| 5V | ±9V |
| 7V | -9V |
| 9V | -9V |

