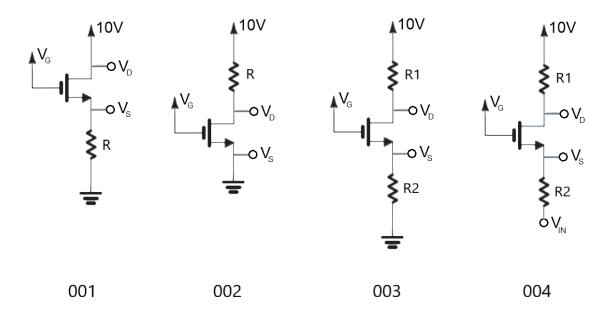
MOSFET circuits with Resistor(s) and DC source.

Fill in the blanks in the following table given the four circuit configurations below. Assume $V_T = 1V$ and $k = 1 \text{mA/V}^2$. In the Mode column enter one of the following:

- "Off" when V_G<V_T,
- "Triode" when $V_{DS} < V_{GS}$ V_T or
- "Saturation" when $V_{DS} >= V_{GS} V_{T}$.

When the MOSFET is in the triode mode put "??" in the I_D column and any column that depends on I_D . When the MOSFET is in off mode, put "??" in the I_D column and any column that depends on I_D .



Circuit	V_{D}	V _G	Vs	V _{GS}	Vov	R	I_D	Mode
001		0V				xx		
001		3V				1k		
001		6V				1k		
001		3V				10k		
001		6V				10k		
001		3V				100k		

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Circuit	V _D	V_{G}	Vs	V _{GS}	Vov	R	I_D	Mode
002		0V				Х		
002		3V				100Ω		
002		3V				1kΩ		
002		3V				10kΩ		
002		6V				100Ω		
002		6V				1kΩ		

Circuit	V _D	V _G	Vs	V_{GS}	Vov	R1	R2	I_D	Mode
003		0V				XX			
003		3V				1kΩ	1k		
003		6V				1kΩ	1k		
003		3V				10k	10k		
003		3V				100k	1k		
003		6V				10k	1k		

Circuit	V _D	V_{G}	Vs	V_{GS}	Vov	R1	R2	I_D	Mode
004		6V				1kΩ	1kΩ		