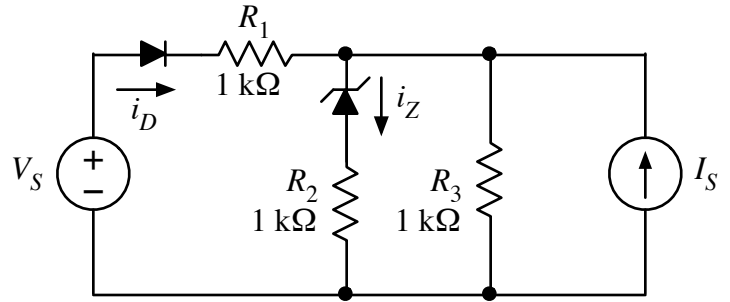In the circuit show at right, the Zener diode has a breakdown voltage of 5 V.

Calculate the two diode currents for the following combination of source values:

$V_S = +12$ V, $I_S = +8$ mA: $i_D =$ _____ , $i_Z =$ _____

$V_S = +12$ V, $I_S = -8$ mA: $i_D =$ _____ , $i_Z =$ _____

$V_S = -12$ V, $I_S = +8$ mA: $i_D =$ _____ , $i_Z =$ _____