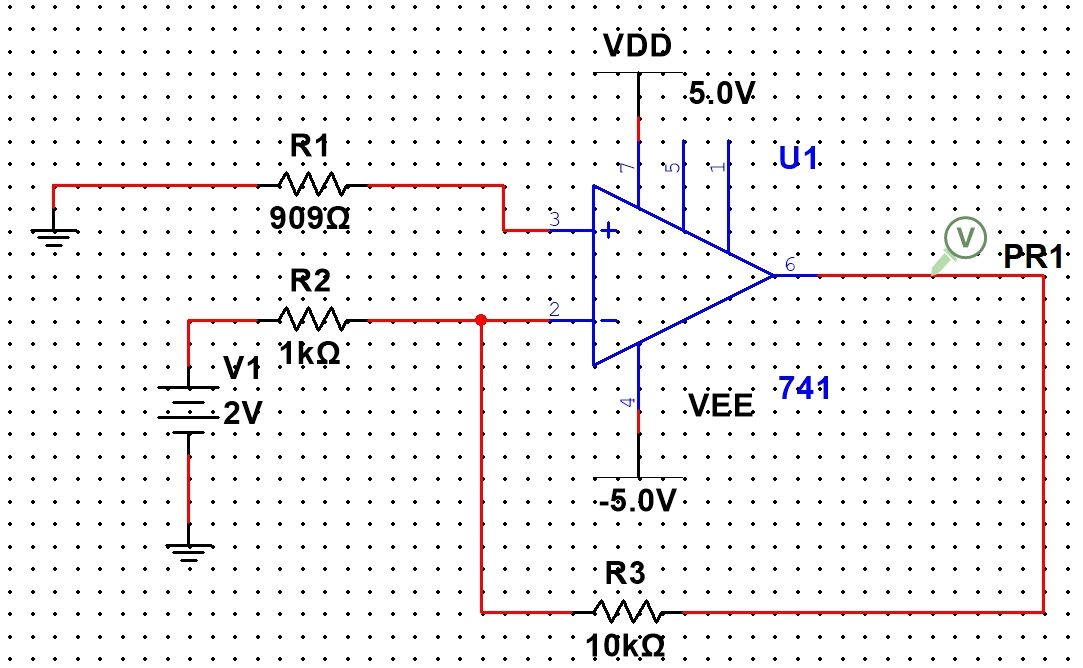
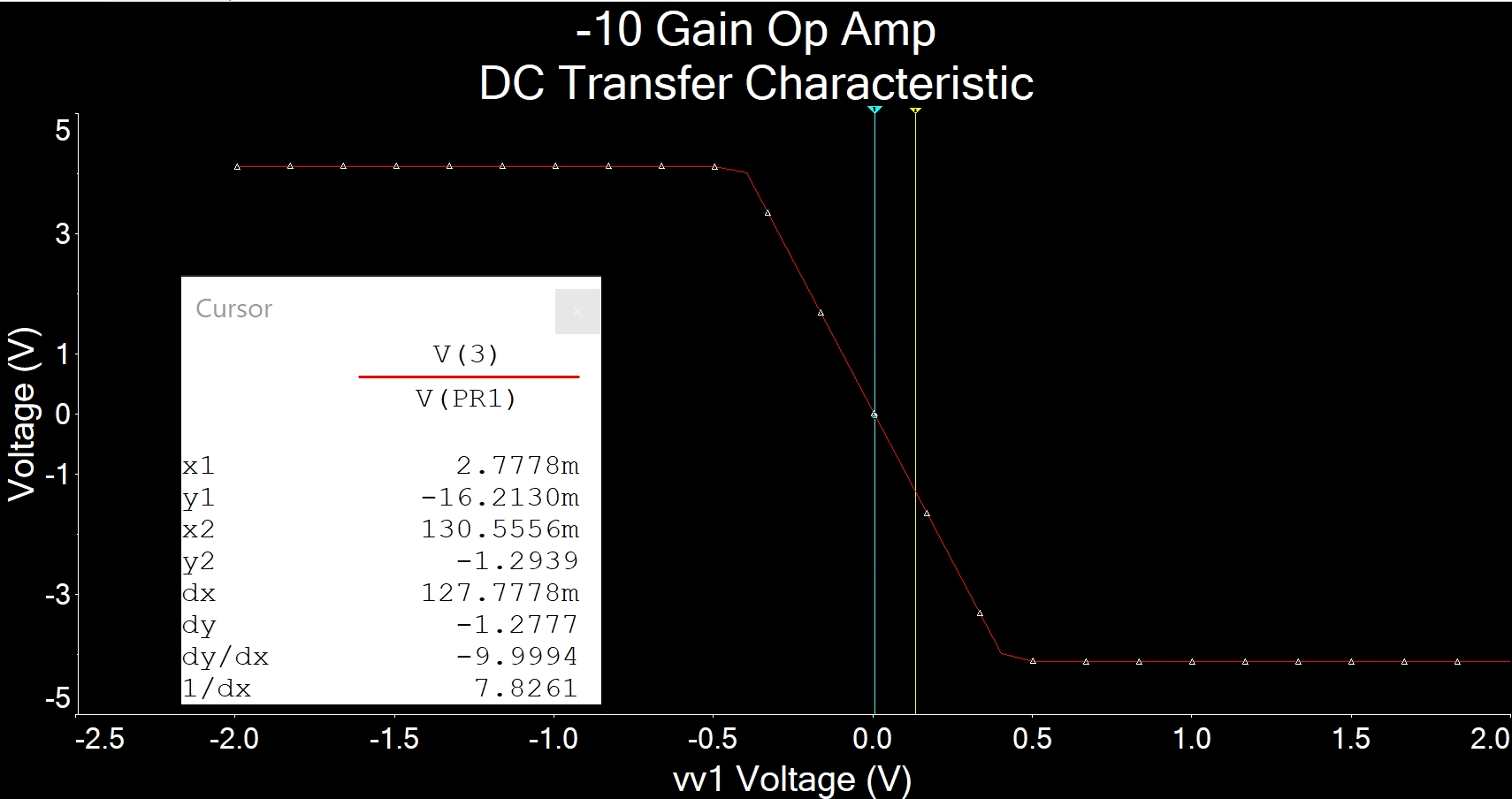
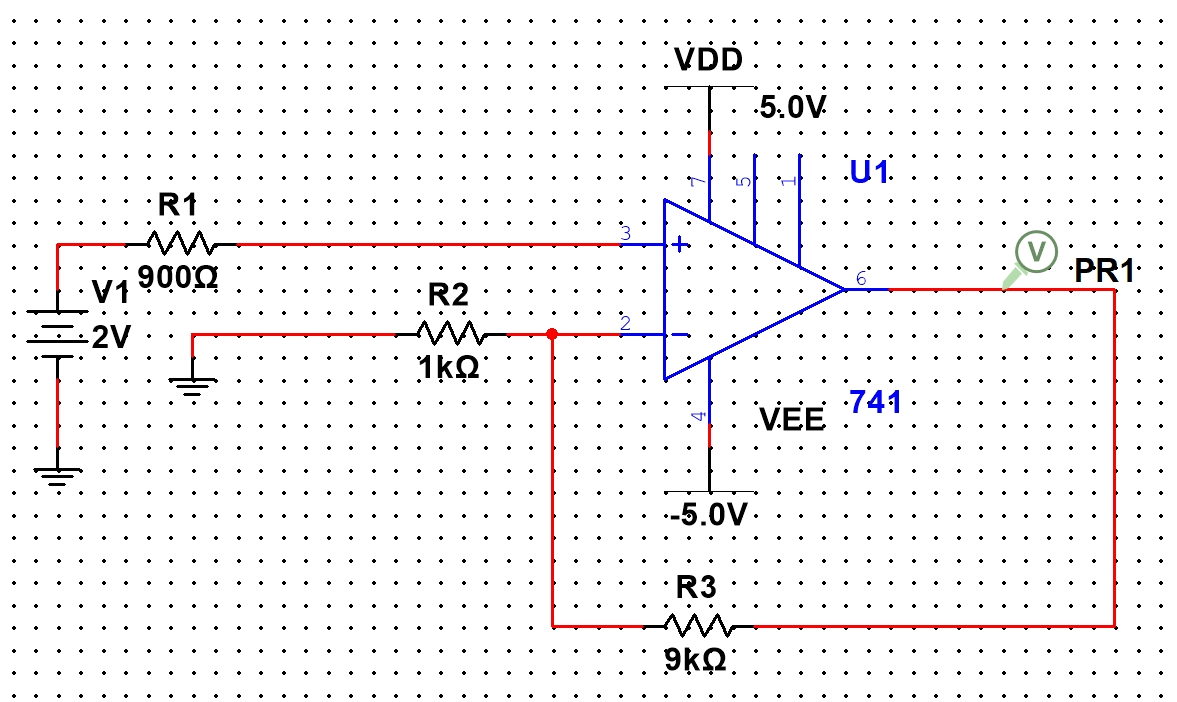
1. Leaving Ri (R2) at the default resistance of 1000 ohms, the value of Rf (R3) was calculated using the target gain in the inverting amplifier formula . Rewriting it as , Rf was determined to be 10000 ohms. A stabilizing resistor (R1) was then set to the parallel resistance between R2 and R3, which was about 909 ohms.

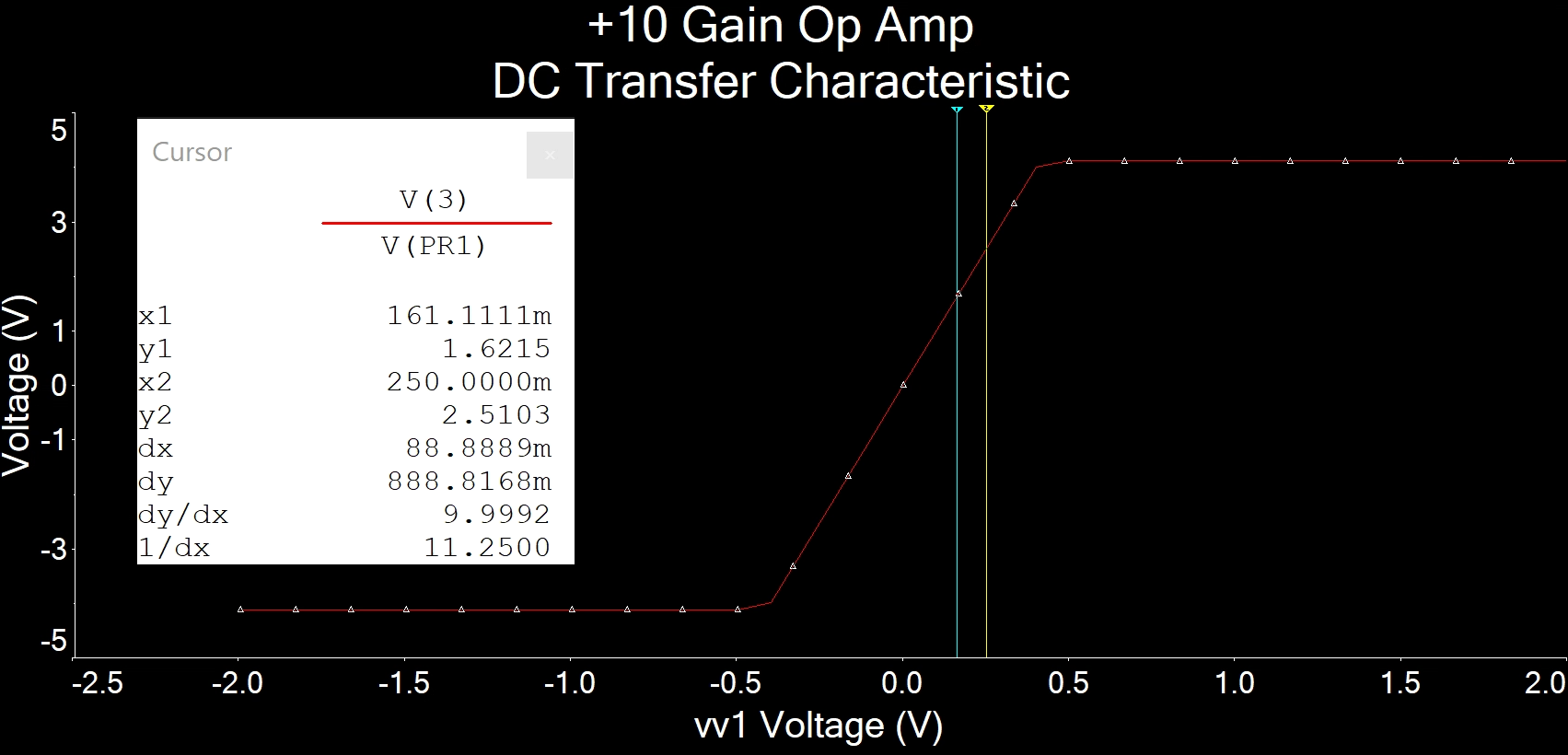




dy/dx is about -10.

2. Still leaving Ri (R2) at the default resistance of 1000 ohms, the value of Rf (R3) was calculated using the target gain in the non-inverting amplifier formula . Rewriting it as , Rf was determined to be 9000 ohms. A stabilizing resistor (R1) was then set to the parallel resistance between R2 and R3, which was 900 ohms.





|dy/dx| is about 10.