**Pre-Lab 4:**

**Operational Amplifiers – Part II**

Name: Wan-Yu Liao

ECEN 325 Section 514

TA: Mandela

Date: September 27, 2019

**Calculations**

(1)



(2)



(3)



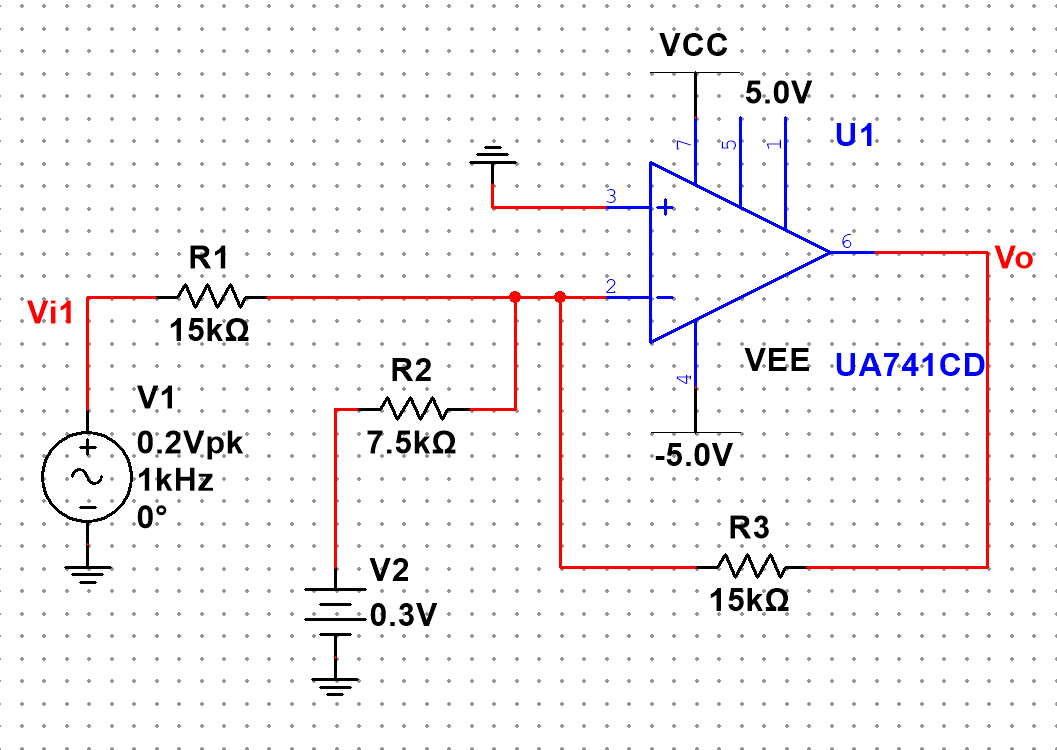
(4)



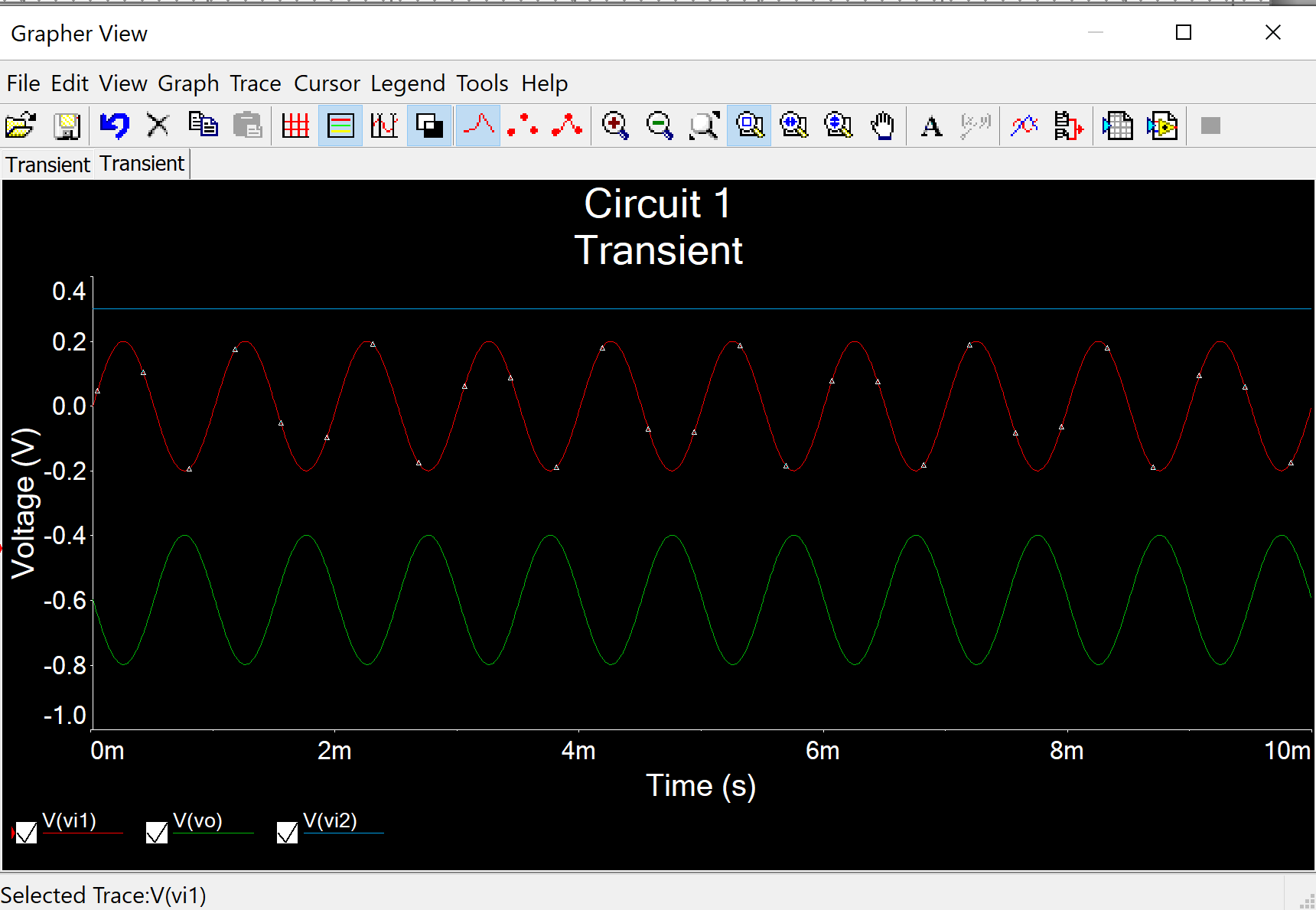
**Simulations**

**Circuit 1:**

(a)



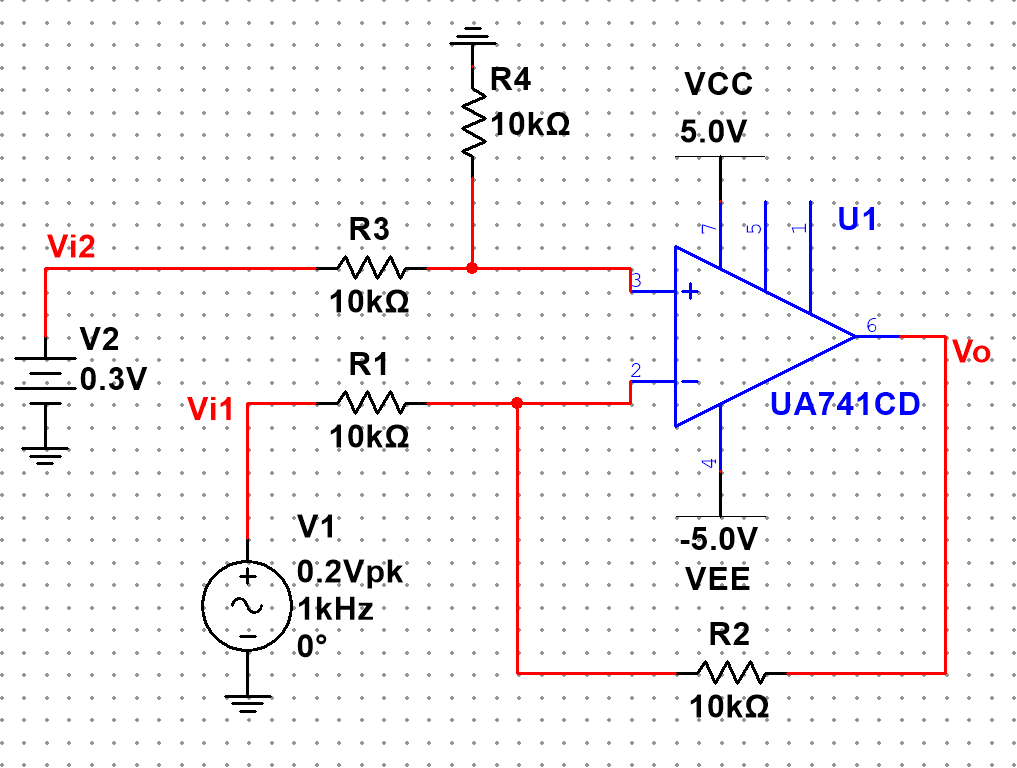
(b)



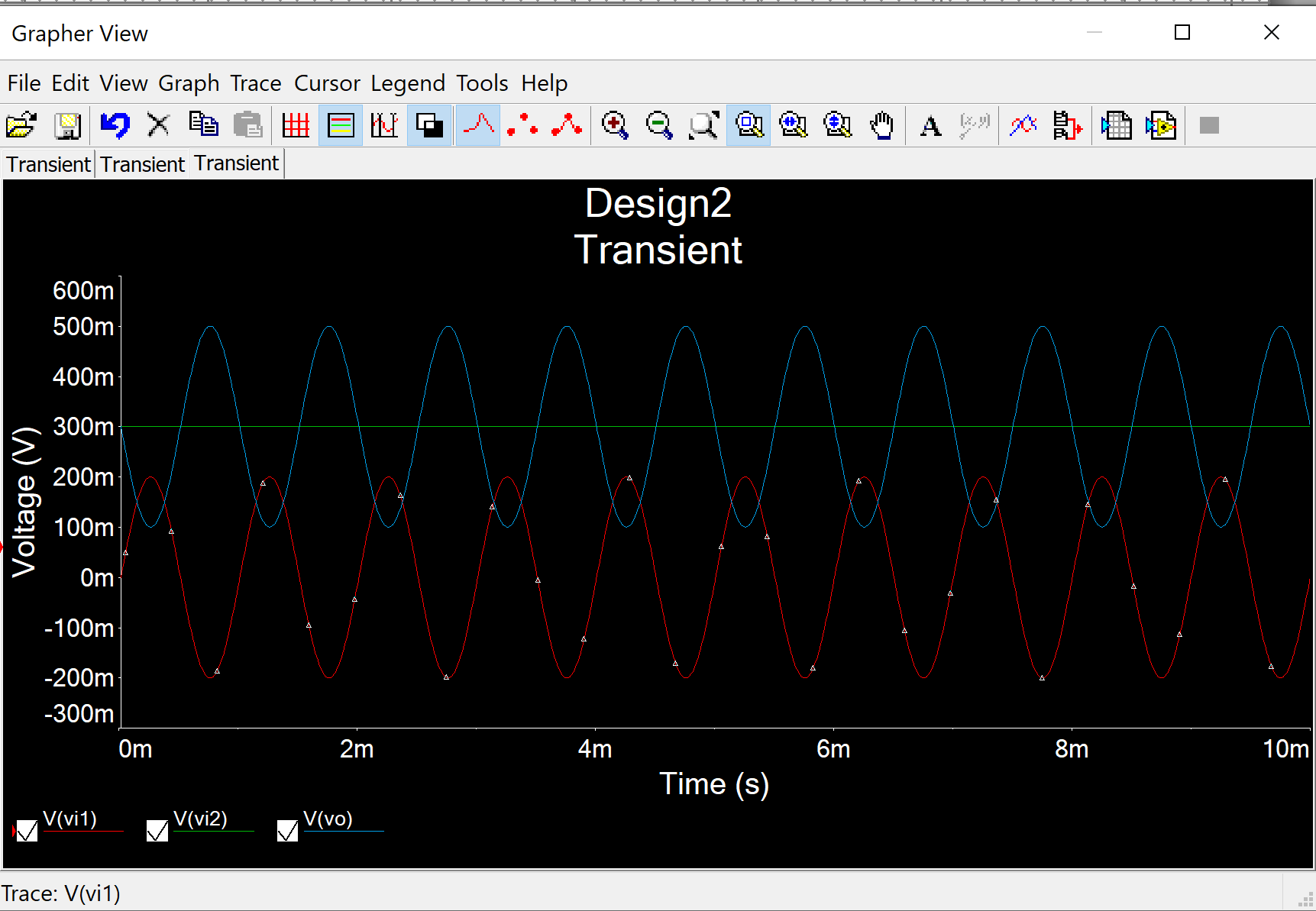
, which is opposite the Vi1 and shift down by 0.6.

**Circuit 2:**

(a)



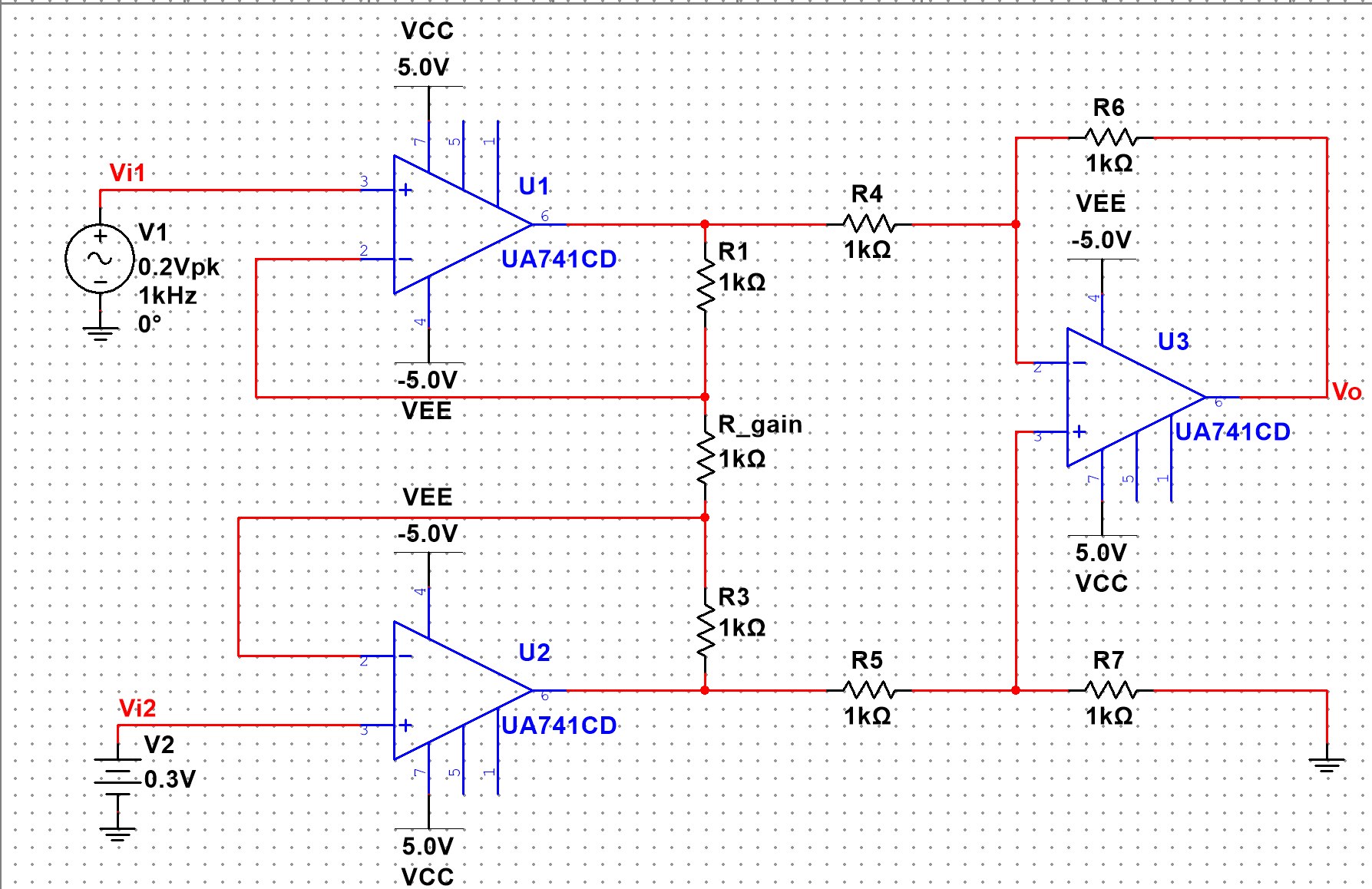
(b)



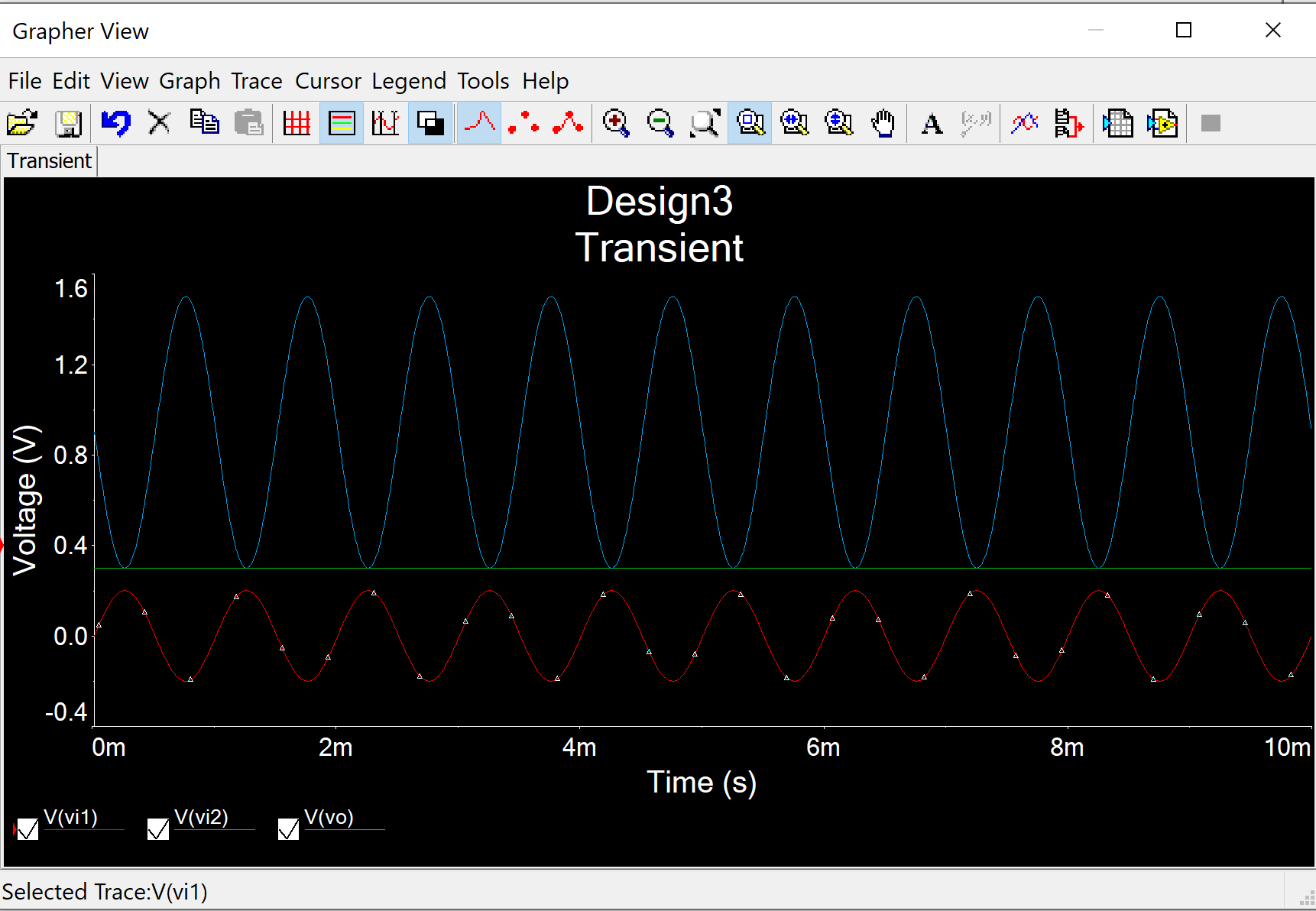
, which is opposite the Vi1 and shift up by 0.3.

**Circuit 3:**

(a)



(b)



which is opposite the Vi1 with amplitude of 0.6 and shift up by 0.9.