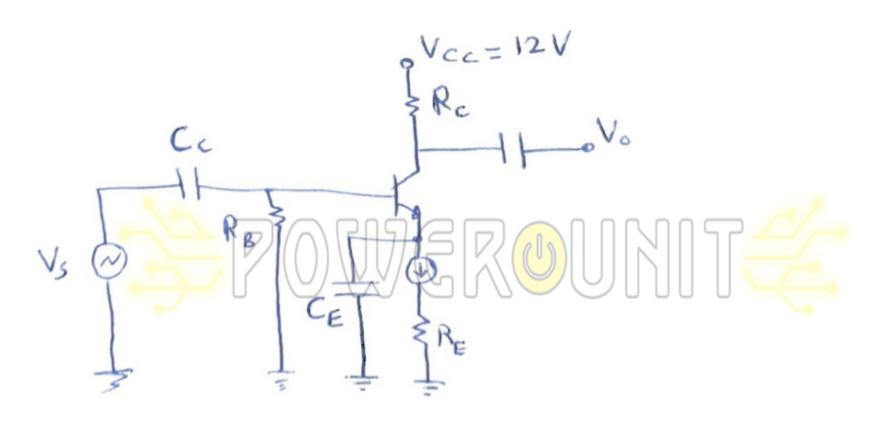
# Question 1/4

For the Electronic Circuit shown in the Figure.



#### **Q** Zoom image

If you Know:

RC = 1 kohm, RE = 500 ohm, RB = 100 kohm, and Io = 2 mA For the Transistor: VT = 0.026V, VBE = 0.7V, VCE(SAT) = 0.2V, and SET = 100;

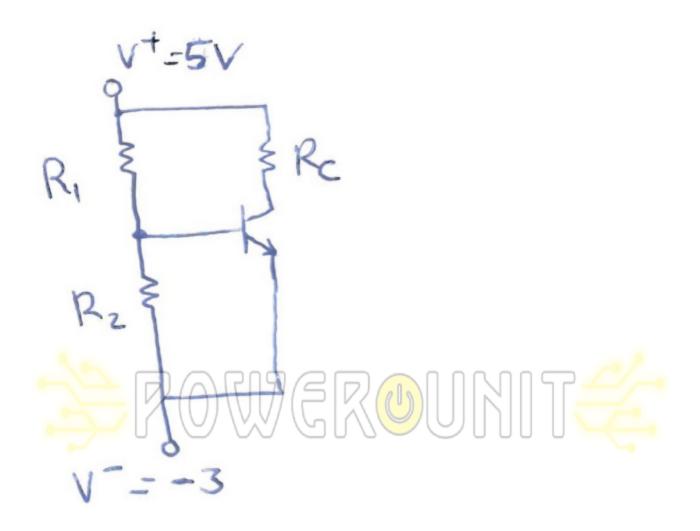
Find the small signal Voltage gain Av=Vo/Vs.

Activate V
Go to Settings

If you Know: RC = 1 kohm, RE = 500 ohm, RB = 100 kohm, and Io = 2 mAFor the Transistor: VT = 0.026V, VBE = 0.7V, VCE(SAT) = 0.2V, and Beta = 100; Find the small signal Voltage gain Av=Vo/Vs. -33 -66 WERDUN -88 -77

None.

-22



### **Q** Zoom image

If you Know:

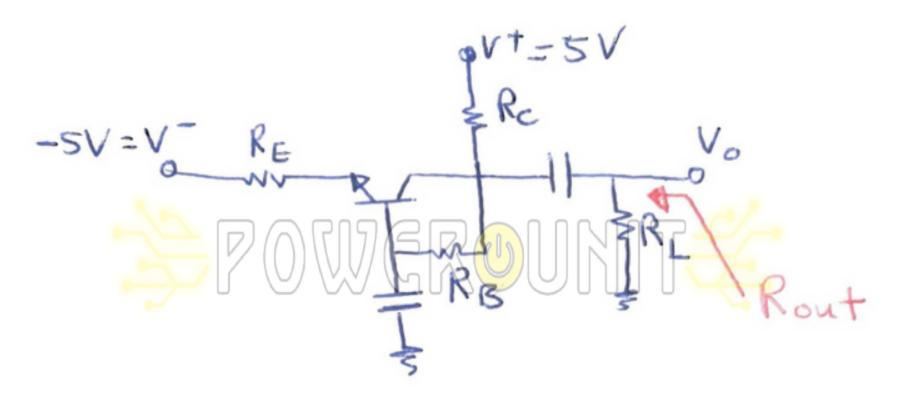
RC = 2 kohm, R1 = 90 kohm, R2 = 10 kohm.

For the Transistor: VT = 0.026V, VBE = 0.7V, VCE(SAT) = 0.2V, and Beta = 100;

Find the value of ICQ

# Question 3/4

For the Electronic Circuit shown in the Figure.



#### ♥ Zoom image

#### If you Know:

RC = 2kohm, RE = 300 ohm, RB = 100 kohm, and RL = 1 kohm.

For the Transistor: VT = 0.026V, VEB = 0.7V, VEC(SAT) = 0.2V, and Beta = 300;

Find the indicated output resistance Rout.

If you know:
RC = 2kohm, RE = 300 ohm, RB = 100 kohm, and RL = 1 kohm. For the Transistor: VT = 0.026V, VEB = 0.7V, VEC(SAT) = 0.2V, and Beta = 300;
Find the indicated output resistance Rout.
O 1.5 kohm
O 330 ohm

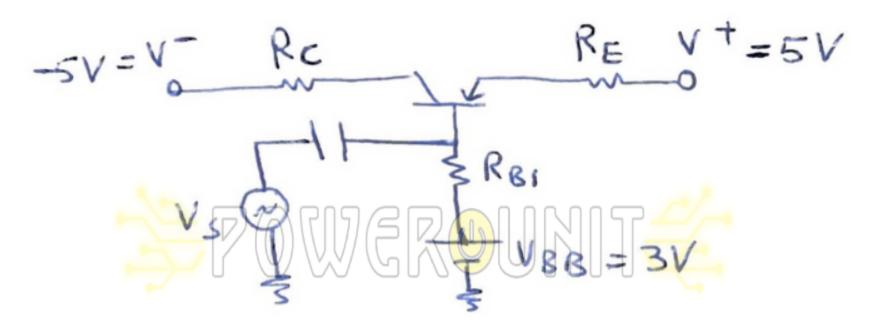


- 4.2kohm
- O 662 ohm

O 890 ohm

### Question 4/4

For the Electronic Circuit shown in the Figure.



#### **Q** Zoom image

If you Know:

RC = 2kohm, RE = 100 ohm, and RB1 = 100kohm.

For the Transistor: VT = 0.026V, VBE = 0.7V, VCE(SAT) = 0.2V, and Beta = 100;

Find the small signal rpi.