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% Project 3
% Konstantin Zelmanovich
% Jayden Chen
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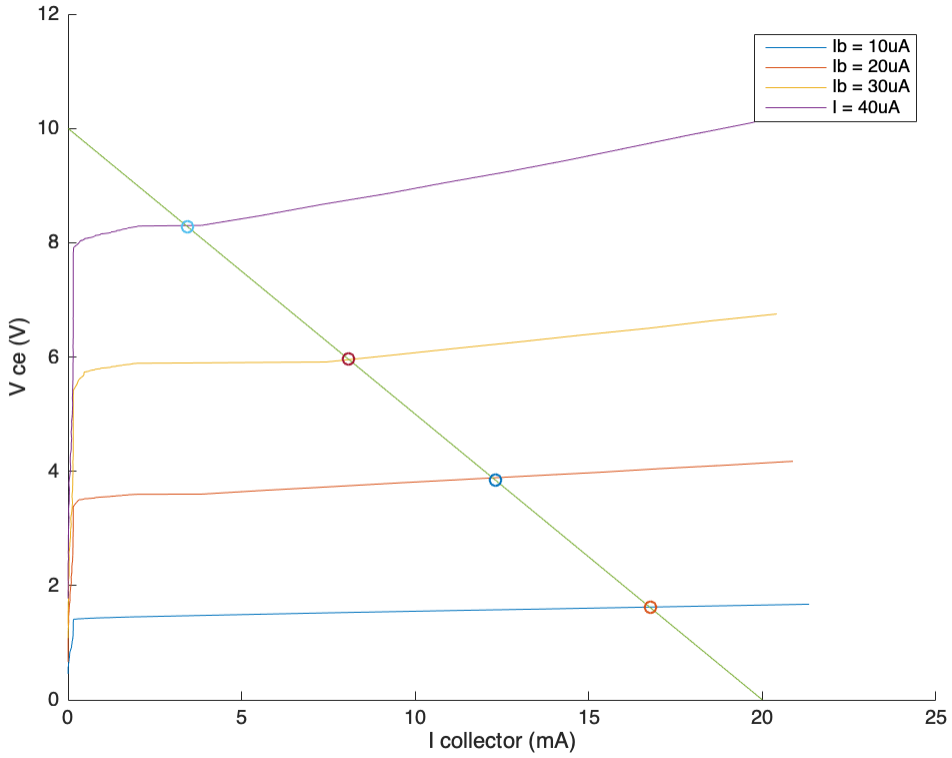
Project 3

```
clc
clear all
clf
M = csvread('Curve Tracer Data.csv');

v10 = M(:,3);
i10 = M(:,4);

v20 = M(:,5);
i20 = M(:,6);

v30 = M(:,7);
i30 = M(:,8);

v40 = M(:,9);
i40 = M(:,10);

v10 = v10(v10 ~= 0.0);
i10 = i10(1:length(v10));

v20 = v20(v20 ~= 0.0);
i20 = i20(1:length(v20));

v30 = v30(v30 ~= 0.0);
i30 = i30(1:length(v30));

v40 = v40(v40 ~= 0.0);
i40 = i40(1:length(v40));
vcc = 20;
rc = 2;
vce = linspace(0,20);
ic = vcc/rc - (1/rc)*vce;

for i = 1:length(v10)

end
intersect_v40 = 3.434;
intersect_i40 = 8.283;
intersect_v30 = 8.081;
intersect_i30 = 5.96;
intersect_v20 = 12.32;
intersect_i20 = 3.838;
intersect_v10 = 16.77;
intersect_i10 = 1.616;
hold on
plot(v10, i10)
```

```
plot(v20, i20)
plot(v30, i30)
plot(v40, i40)
plot(vce, ic)
plot(intersect_v40, intersect_i40, 'o', intersect_v30,
 intersect_i30, 'o', intersect_v20, intersect_i20, 'o', intersect_v10,
 intersect_i10, 'o');
legend('Ib = 10uA', 'Ib = 20uA', 'Ib = 30uA', 'I = 40uA')
xlabel('I collector (mA)');
ylabel('V ce (V)');
hold off
```



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