*HERRICHES!

sub
$$T_A$$
 into (3)

$$\Rightarrow T_B = 4000 \cos(10^\circ) - 1211 \cos(15^\circ)$$

$$\cos(20^\circ)$$

```
26) function [TA, TB] = calc Range Of Tensions
theta = 0:0.5:20;
A = [cosd (15) cosd (20); sind (15) -sind (20)];
  for i = 1: length (theta)

C = [4000 * cosd (theta(i)); -4000 * sind (theta(i))];
       X = inv (A) * C;
      TA(i) = x(1);
 TB(i)=x(2)i
 Plot (theta, TA, rs', theta, TB, go');
 grid on

xlabel ("theta (degrees)");

ylabel (" F(N)");
end
 Yes, the tensions have an equal magnifule of 2097N with D=2.59
```