Parallel Worksheet 2

1. VS = 18 V, R1 = 2.7 kΩ, R2 = 4.5 kΩ, R3 = 6.2 kΩ, **Solve for RT and IT**

2. IT = 8 mA, R1 = 1.2 kΩ, R2 = 3.7 kΩ, R3 = 2.3 kΩ, **Solve for Vs**

3. IT = 21 mA, R1 = 1.5 kΩ, R2 = 3 kΩ, R3 = 6 kΩ, **Solve for I1, I2, and I3**

4. IT = 16 mA, R1 = 4 kΩ, R2 = 12 kΩ, R3 = 16 kΩ, **Solve for I1, I2, and I3**

5. VS = 20 V, IT = 90 mA, I2 = 20 mA, I3 = 30 mA, **Solve for R1**

6. VS = 35 V, IT = 20 mA, I2 = 10.89 mA, I3 = 5.93 mA, **Solve for R1**

7. VS = 18 V, IT = 6.2 mA, R1 = 15 kΩ, R3 = 6 kΩ, **Solve for R2**

8. VS = 10 V, IT = 7 mA, R1 = 3.3 kΩ, R3 = 6.8 kΩ, **Solve for R2**

9. IT = 10.5 mA, R1 = 12 kΩ, I1 = 2.5 mA, R3 = 10 kΩ, **Solve for R2**

10. V1 = 9 V, R1 = 3 kΩ, I2 = 2.4 mA, I3 = 4.5 mA, **Solve for R2 and R3**