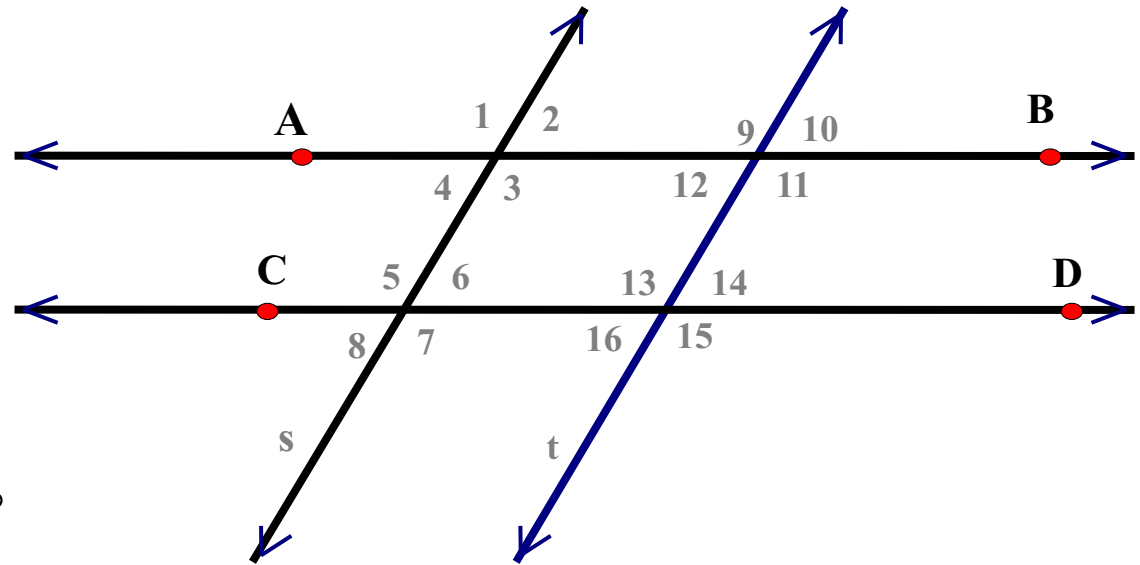**Example:** If line **AB** is parallel to line **CD** and *s* is parallel to *t,* find the measure of all the angles when m< 1 = 100°. Justify your answers.

m<2=80°   m<3=100° m<4=80°

m<5=100° m<6=80°   m<7=100°   m<8=80°

m<9=100°   m<10=80°   m<11=100°   m<12=80°

m<13=100°   m<14=80°   m<15=100°   m<16=80°

Example: If line **AB** is parallel to line **CD** and *s* is parallel to *t,* find:

1. the value of x, if m<3 = 4x + 6 and the m<11 = 126.

2. the value of x, if m<1 = 100 and m<8 = 2x + 10.

3. the value of y, if m<11 = 3y − 5 and m<16 = 2y + 20.

ANSWERS:

1. 30

2. 35

3. 33