Directions for the ANS Worksheet

1. Using the reading, identify and fill out the receptors each drug acts upon. Note their affinity and selectivity. Does the drug act as an agonist or antagonist? How does activity at each receptor affect heart rate (HR), systolic blood pressure (SBP), diastolic blood pressure (DBP), and mean arterial pressure?

2. Fill out the effect of each drug in isolation
   a. For example: acetylcholine

   ![Diagram of acetylcholine effect]

3. Next, combine the effects of the drugs
   a. For example: simultaneous therapy of Acetylcholine \((M_1 + M_2 + M_3, \text{agonist})\) with Atropine \((M_1 + M_2 + M_3, \text{antagonist})\) will yield no net effect since all agonist activity cancels out with antagonist activity

   ![Diagram of combined effect]

Tip: as you fill out the table, try to identify patterns, and watch out for reflexes in heart rate!