

Instructions

- Answer each question completely; justify your answers.
 - This assignment is due at 15:00 on Monday April 1st in Assignment Box #48.
1. Construct a simple $T(2, 13)$.
 2. Construct a simple $T(2, 12)$.
 3. Construct a simple $T(2, 9)$.
 4. (a) Find a difference partition for S_{13} .
(b) Use this partition to construct a cyclic STS(13).
 5. (a) Find a difference partition for S_{31} .
(b) Use this partition to construct the starter blocks of a cyclic STS(31).
 6. (a) Find a difference partition for S'_{33} .
(b) Use this partition to construct the starter blocks of a cyclic STS(33).