

Spring 2022, Math 579: Preliminary Problem Set 6
Due: Thursday, March 3rd, 2022
Set Partitions

Preliminary problems. These problems should be completed before discussion on Thursday.

(P1) Complete the list of all 15 set partitions of the set $[4]$ below.

$$\{12, 34\} \qquad \{1, 234\}$$

$$\{13, 24\}$$

(P2) Find each of the following values.

$$S(4, 1) = \underline{\hspace{2cm}}$$

$$S(4, 3) = \underline{\hspace{2cm}}$$

$$S(4, 2) = \underline{\hspace{2cm}}$$

$$S(4, 4) = \underline{\hspace{2cm}}$$