

1. Solve the following systems of equations using all three of our techniques:

i) $5x - 4y = 23$
 $3x + 2y = 5$

ii) $2x + 3y = 19$
 $5x - y = 5$

iii) $2x - 2y - 4z = -6$
 $2x + y - z = -3$
 $x + y + 2z = 5$

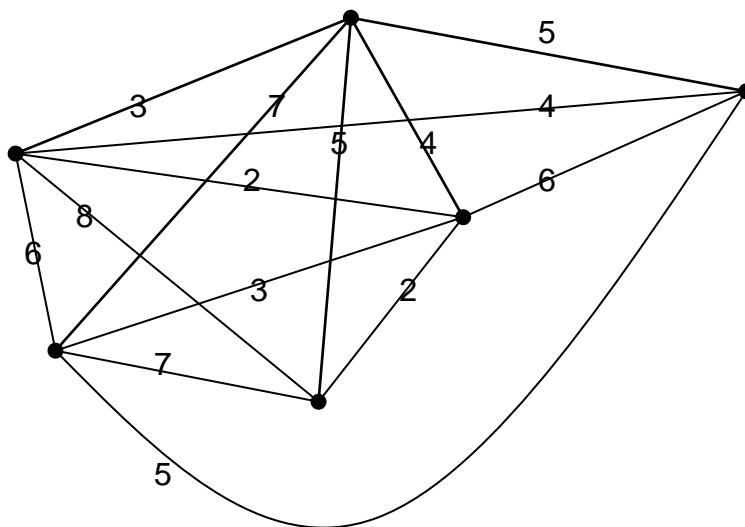
iv) $3x + 2y - 2z = 17$
 $x - y + z = -1$
 $x + y + 3z = 3$

2. Prove:

i) $(A+B)+C = A+(B+C)$

ii) $(A+B)C = AC+BC$

3. Determine the minimal spanning tree (simply trace it with a colored pen):



4. Determine the minimal spanning tree for figures 13.4, 13.5, and 13.8 on pages 638 and 643 of your text.