- 1. 1
- 2. (2,0)
- 3. If the second constraint $(y \ge 0)$ is removed, the optimum objective value becomes infinity If the first constraint $(x \ge 1)$ is removed, the optimum objective value remains unchanged
- 4. Let A=1, B=1, C=3. $A*eq1+B*eq2+C*eq3 \text{ gives us } 4x+4y+4z\geq 6.$ Therefore, $x+y+z\geq 1.25,$ so 1.1 cannot be a valid answer.
- 5. The optimum objective value is 1.25 The constraints $x, y, z \ge 0$ are irrelevant (they can be removed without affecting the opt objective value)