- **Changing the right hand side of a LP affects**

  a) Optimality conditions.

  b) Weather conditions.

  c) Political conditions.

  d) Feasibility Conditions.

- **Changing the right hand side of a LP will**

  a) Always change the optimal solution.

  b) Sometimes change the optimal solution.

  c) Always change the optimal basis.

  d) Sometimes change the optimal basis.

- **If the right hand side $b_1$ is changed by a small amount $\delta$**

  a) $Z^*$ will change by $\delta$.

  b) $Z^*$ will change by $\delta \times x_1^*$, where $x_1$ is a decision variable.

  c) $Z^*$ will change by $\delta \times y_1^*$, where $y_1$ is a dual variable.

  d) $Z^*$ will change by $\delta \times \gamma$, where $\gamma \approx 0.57$ is Euler's constant.

- **Adding a new constraint to a LP,**

  a) Will not improve the optimal objective value.

  b) Will always change the optimal solution.

  c) Will sometimes change the optimal solution.

  d) Should be always done when solving integer programs.