Linear Regression:

1. Least Squares
2. Ridge
3. Lasso
4. Polynomial

Regularization – Penalty added due to heavy weights and is controlled by alpha parameter.

For Ridge Regression: We add Regularization apart from least squares – we use sum of squared weights.

For Lasso Regression: We also add Regularization but instead of squares – we use absolute sum of weights.

Lasso – useful – few variables medium or large effects on output variable

Ridge – useful – lots of variables with small or medium effects on output variable

Polynomial -