TruongDuy 1.23.19

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R Markdown

 $= b_0 + b_1 x$

PROBLEM 1:

Using the purity data from Problem 2.7, calculate the estimates for the true slopes and true intercept using RMarkdown

[1] 0.0329736

[1] -1.84507

PROBLEM 2:

Calculate the estimate of the true error variance. Interpret

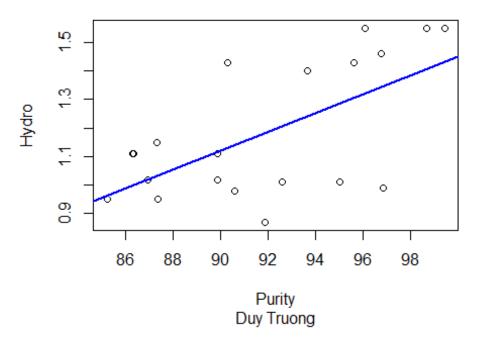
[1] 0.03614274

The smaller our MSres is the more reliable our data is since there is less variability

PROBLEM 3:

Plot the data and the fitted simple linear regression line in one graph

Purity vs Hydro



PROBLEM 4:

Verify (using R) Properties 1,2,4 and 5 of the least squares fit

```
## [1] -1.665335e-15

## P1 P2 P4 P5

## 1 TRUE TRUE 1.926237e-13 9.550303e-15
```

HOMEWORK 2: