## Assignment 7

Frank Woodling
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## 1.

```
x.1 \leftarrow matrix(c(1382.2, 1114.4,
                  1114.4, 1382.2)
                  ,nrow = 2, ncol = 2)
x.2 \leftarrow matrix(c(1114.4, 591.73), nrow = 2, ncol = 1)
x.1.inv \leftarrow solve(x.1)
x.1.inv%*%x.2
##
                [,1]
## [1,] 1.3175495
## [2,] -0.6341682
var_w <- 1382.2-1.3175495*1114.4+0.6341682*591.73</pre>
var_w
## [1] 289.1792
Yule-walker estimates:
\phi_1 = 1.3175495
\phi_2 = -0.6341682
\sigma_w^2=289.1792
```