```
> model4 <- lm(price ~ poly(enginesize, 2, raw = TRUE), data = df)
> summary(model4)

Call:
lm(formula = price ~ poly(enginesize, 2, raw = TRUE), data = df)

Residuals:
    Min      1Q  Median      3Q     Max
-9402.6 -1980.5   -49.2  1462.8 13778.1

Coefficients:
                                Estimate Std. Error t value Pr(>|t|)
(Intercept)                   -1.251e+04  2.312e+03  -5.410 1.88e-07 ***
poly(enginesize, 2, raw = TRUE)1  2.217e+02  2.943e+01   7.532 1.97e-12 ***
poly(enginesize, 2, raw = TRUE)2 -1.439e-01  8.469e-02  -1.700   0.0908 .
```

 # price = price = b0 + b1*engine size + b2*engine size^2

```
> model5 <- lm(price ~ log(enginesize), data = df)
> summary(model5)

Call:
lm(formula = price ~ log(enginesize), data = df)

Residuals:
   Min     1Q Median     3Q    Max
 -9694  -2225    115   1795  14442

Coefficients:
               Estimate Std. Error t value Pr(>|t|)
(Intercept)      -109803       4923  -22.30   <2e-16 ***
log(enginesize)    25584       1022   25.04   <2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 3919 on 191 degrees of freedom
Multiple R-squared:  0.7665,  Adjusted R-squared:  0.7653
F-statistic: 627.1 on 1 and 191 DF,  p-value: < 2.2e-16
```

 # price = b0 + b1*log(engine size)