Normal - Fuel

MP

2015-05-14

```
> setwd("D:/Dropbox/R/2015-NUS/Session-1/(b) R-Functions/Normal-FuelEfficiency")
```

```
> pnorm(c(6.75), mean=7.13, sd=0.27, lower.tail=TRUE)
```

```
[1] 0.07965331
```

```
> pnorm(c(7.49), mean=7.13, sd=0.27, lower.tail=TRUE)
```

```
[1] 0.9087888
```

```
> 0.9087888-0.07965331
```

```
[1] 0.8291355
```

```
> local({
+   .x <- seq(6.242, 8.018, length.out=1000)
+   plotDistr(.x, dnorm(.x, mean=7.13, sd=0.27), cdf=FALSE, xlab="x",
+   ylab="Density",
+   main=paste("Normal Distribution:  Mean=7.13, Standard deviation=0.27"))
+ })
```

Normal Distribution: Mean=7.13, Standard deviation=0.27