Chapter 2 - Exercises

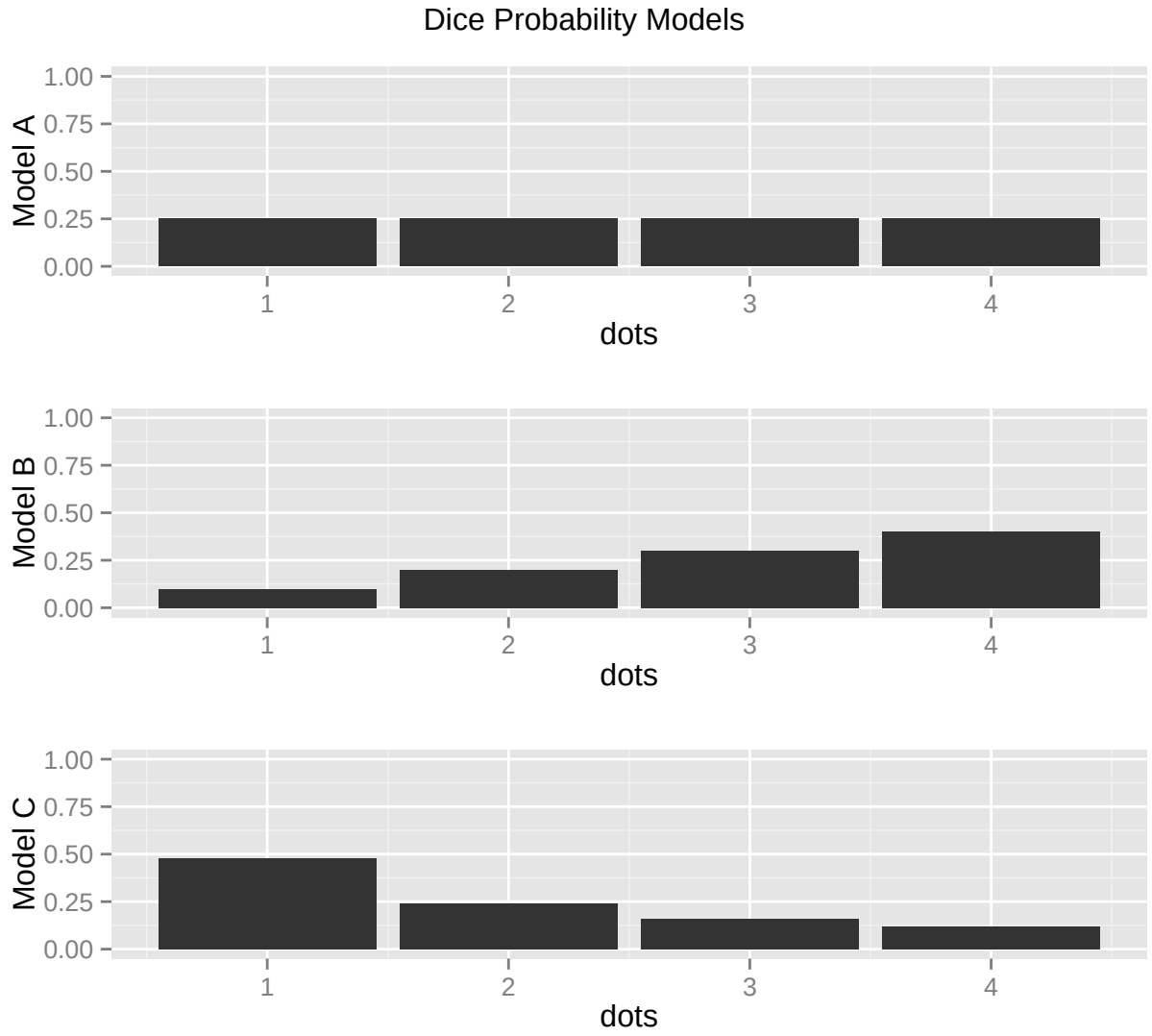
LinMod

Sunday, September 14, 2014

2-2 Define dice models.

```
dice.a <- function(x) {replicate(length(x), .25)}
dice.b <- function(x) {x/10}
dice.c <- function(x) {12/(25*x)}
dots <- 1:4
```

Once the models are defined, we get the output of each one for a probability density function.



Model A is unbiased, Model B is biased toward larger values,
and Model C is biased toward smaller values.

2-6 Plot cubic function $y = x^3$ on the interval $x \in [-3, 3]$, using the simple `curve` function.

```
# x^3 from -3 to 3; y-axis label changed for style.
curve(x^3, from=-3, to=3, ylab="f(x) = x^3", col="blue", lwd="3")
```