Enough grid approximation

We'll use quadratic approximation for the rest of the first half of the course.

$$
\begin{aligned}
W_i &\sim \text{Normal}(\mu_i, \sigma) \\
\mu_i &= \alpha + \beta H_i \\
\alpha &\sim \text{Normal}(0, 10) \\
\beta &\sim \text{Uniform}(0, 1) \\
\sigma &\sim \text{Uniform}(0, 10)
\end{aligned}
$$

```
m3.1 <- quap(
    alist(
        W ~ dnorm(mu,sigma),
        mu <- a + b*H,
        a ~ dnorm(0,10),
        b ~ dunif(0,1),
        sigma ~ dunif(0,10)
    ) , data=list(W=W,H=H) )
```