## **Brownian Information**

- 13. Compute  $\mathbb{P}\{W_5 > 6|W_3\}$ .
  - (a) Write the answer in terms of

$$F(t) \stackrel{\text{def}}{=} \int_{s=-\infty}^{t} \frac{1}{\sqrt{2\pi}} \exp\left[-\frac{1}{2}s^2\right] ds \qquad t \in \mathbb{R}$$

- (b) Write the answer in terms of erf.
- 14. Compute  $\mathbb{E}[W_5^3|W_3]$ .