

FIGURE 28.26. The diffusion approximation is derived using a Taylor's series (Box 28.6). The *red curve* shows the distribution of fluctuations, f(y), and the *blue curve* shows the probability distribution $\psi(x)$. If the distribution of fluctuations is narrow, then the distribution can be approximated by a quadratic curve

$$\psi_t(x) - \gamma \frac{d\psi_t}{dx} + \frac{\gamma^2}{2} \frac{d^2 \psi_t}{dx^2} \cdots$$

shown by the dotted line.

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