FIGURE 16.6. After two populations fixed for different alleles meet at a sharp boundary, gene flow will gradually broaden the transition between them. The figure shows the clines after 1, 10, 100, 1000, and 10,000 generations, when the clines are $\sqrt{2\pi\sigma^2 t} = 2.5\sigma$, 7.9$\sigma$, 25$\sigma$, 79$\sigma$, and 250$\sigma$ wide, respectively (red, green, purple, blue, and orange lines). The cline width is defined by drawing a tangent to the steepest part of the cline (dotted line), as shown by the arrows for the cline at $t = 10,000$ generations.

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