FIGURE 14.7. The additive model generates an approximately normal distribution, even when only a few genes are involved. (*A*) A single genetic locus carries two alleles at equal frequency. The *thin curves* show the trait distributions of the three genotypes and the *thick curve* shows the overall distribution. (*B*) Two genetic loci, each with two alleles at equal frequency. Both genes have the same size of effect on the trait. In both examples, 62% of the total variance is due to genetic differences.