

Answer Key

Real-Life Application

1. The equation gives S in millions of dollars.
2. $5.4t^2 + 8.3t - 377.5 = 0$
3. $b^2 - 4ac = 8222.89$ Because the discriminant is positive, the equation has two solutions. The business will not be risky.
4. $-5.3t^2 + 34.25t - 58.6 = 0$
5. $b^2 - 4ac = -69.2575$ Because the discriminant is negative, the equation has no solution. The business will probably not succeed.