Name: $\qquad$
Date: $\qquad$

Basic Skills
Solving by Quadratic Formula

Solve the quadratic by using the quadratic formula. Write the answer in simplest radical form (no decimals), if necessary.

1. $x^{2}+2 x+2=0$
2. $x^{2}+12 x+16=0$
3. $x^{2}-5 x+6=0$
4. $3 x^{2}+6 x+6=0$
5. $2 x^{2}+4 x+7=0$
6. $-2 x^{2}-4 x+13=0$
7. An object is launched at 19.6 meters per second ( $\mathrm{m} / \mathrm{s}$ ) from a 58.8 -meter tall platform. The equation for the object's height $s$ at time $t$ seconds after launch is $s(t)=-4.9 t^{2}+19.6 t+58.8$, where $s$ is in meters. When does the object strike the ground?
