# 5.4 Activity: The Quadratic Formula

Solve the following quadratic equations using the quadratic formula.

1. 
2. 
3. 
4. 

Determine the number and type of solutions for the quadratic equations given using the discriminant.

1. 
2. 
3. 
4. 
5. 
6. The length l (in feet) of runway needed for a small airplane to land is given by , where *s*  is the airplane’s speed (in feet per second). If a pilot is landing a small airplane on a runway 2000 feet long, what is the maximum speed at which the pilot can land?