

Solve each of the following systems, algebraically. Support your solution with a hand sketch. Check your sketch with a graphing utility.

1. $y = -x^2$
 $y = -2x$

2. $x + y = 10$
 $xy = 21$

3. $y = x^2$
 $x = y^2$

4. $x^2 + y^2 = 25$
 $2x - 3y = -6$