

Non-Linear Systems

There are 14 points possible
Count each box below as 1 point

1) $\{(-3.088, 2.360), (1.216, 2.910)\}$	
2) $\{(-2.260, 2.631), (2.260, 2.631), (2.260, -2.631), (-2.260, -2.631)\}$	
3) No solutions	4) $\{(3.869, 3.737), (1.465, -1.070)\}$
5) $\{(2, -1), (-4, 11)\}$	6) $\{(-1, 4)\}$
7) $\{(\sqrt{21}, 2), (-\sqrt{21}, 2), (\sqrt{21}, -2), (-\sqrt{21}, -2)\}$	
8) $\{(4, -2), (4, 2)\}$	
9) $\{(\sqrt{5}, 3), (-\sqrt{5}, 3), (\sqrt{5}, -3), (-\sqrt{5}, -3)\}$	
10) $\{(-3, -2), (-6, -1), (2, 3)\}$	11b) $\frac{x^2}{2500} + \frac{y^2}{900} = 1$
11c) When $x = 45$, $y \approx 13.077$ ft.	12b) $x^2 = 180(y - 10)$
12c) When $x = 40$, $y \approx 18.888$ m	