

Guided Practice Worksheet
Solving Systems involving Circles

Solve the systems.

1) $x^2 + y^2 = 16$
 $Y = 3 - x$ $(-0.90, 3.90)$ $(3.90, -0.90)$

2) $x^2 + y^2 = 36$
 $Y = 2x + 15$ No solution

3) $(x+4)^2 + (y-10)^2 = 25$
 $X = 2$ No solution

4) $(x+4)^2 + (y+2)^2 = 25$
 $4x + 3y = 3$ $(0, 1)$

5) $x^2 + y^2 = 28$
 $Y = -3x + 1$ $(-1.37, 5.11)$ $(1.97, -4.91)$

6) $x^2 + y^2 - 25 = 0$
 $x^2 + y^2 + 6x - 7 = 0$ $(-3, -4)$ $(-3, +4)$

7) $x^2 + y^2 - 16 = 0$
 $x^2 + y^2 + 2x - 24 = 0$ $(4, 0)$

8) $x^2 + y^2 - 9 = 0$
 $x^2 + y^2 + 20y + 70 = 0$ No solution

9) $x^2 + y^2 = 49$
 $(x-6)^2 + (y-2)^2 = 9$ $(5.05, 4.85)$ $(6.95, -0.85)$

10) $(x-1)^2 + (y+5)^2 = 25$
 $(x-1)^2 + (y-4)^2 = 16$ $(1, 0)$