

Worksheet #69

Answers

- 1) 2 positive squares, unequal coefficients: ellipse
- 2) 2 positive squares, equal coefficients: circle
- 3) only one variable squared: parabola
- 4) 2 squares with different signs: hyperbola
- 5) 2 positive squares, unequal coefficients: ellipse
- 6) when we put the squares on the same side of the = we get 2 squares with different signs: hyperbola
- 7) only one variable squared: parabola
- 8) special function: hyperbola
- 9) only one variable squared: parabola
- 10) 2 positive squares, unequal coefficients: ellipse

- 11) center: $(-3, 7)$; $r = \sqrt{(180/5)} = 6$
- 12) center: $(0, 11)$; $r = \sqrt{(68/4)} = \sqrt{17}$
- 13) center: (n, k) ; $r = \sqrt{(w/g)}$

- 14) $(x - 2)^2 + (y + 17)^2 = 225$
- 15) $(x + 3)^2 + y^2 = 7$
- 16) $(x - p)^2 + (y + a)^2 = r^2$