Lesson 11.4 Practice: Recognizing and Graphing Conic Sections

School Launch · Algebra II · Unit 11: Conic Sections · Worksheet A

Calculator for decimals

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Classify the conic $4x^2 + 8x - 3y^2 + 8y - 9 = 0$.

EASY

2. Classify the conic $3x^2 - 5x - y - 9 = 0$. EASY

3. Classify the conic $2x^2 + 7x + 5y^2 + 3y - 2 = 0$.

EASY

4. Classify the conic $2x^2 + 2y^2 - 3y - 6 = 0$.

MEDIUM

5. Classify the conic $2x^2 - x + 5y^2 + 8y - 7 = 0$.

MEDIUM

6. Classify the conic $4x^2 - 2x - 3y^2 + 3y - 9 = 0$.

MEDIUM

7. Classify the conic $2x^2 + 8x + 2y^2 + 4y + 7 = 0$.

MEDIUM

8. Classify the conic $2x^2 + 2x + 5y^2 - 3y - 4 = 0$.

HARD

9. Classify the conic $4x^2 + 5x - 3y^2 + 5y + 5 = 0$.

HARD

10. Classify the conic $3x^2 - 5x - 5y + 7 = 0$. HARD