

Precalc

Quiz 10.7-10.8

Review Ch. 10: test is tomorrow

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Lesson 10-7 (Pages 670–677)

Identify the graph of each equation. Write an equation of the translated or rotated general form.

1. $x^2 + y^2 = 9$ for $T_{(1, -1)}$

2. $4x^2 + y^2 = 16$ for $T_{(-3, -2)}$

Identify the graph of each equation. Then find θ to the nearest degree.

5. $2y^2 + 3y - 2\sqrt{2}xy + x^2 - 1 = 0$

6. $15x^2 + 5xy + 5y^2 + 9 = 0$

3. $49x^2 - 16y^2 = 784; \theta = \frac{\pi}{4}$

4. $4x^2 - 25y^2 = 64; \theta = 90^\circ$

Will give you the x= and y= for rotations

Lesson 10-8 (Pages 678–684)

Solve each system of equations algebraically. Round to the nearest tenth. Check by graphing each system.

1. $xy = 3$
 $x^2 - y^2 = 8$

2. $x - y = 4$
 $x^2 = 10y^2 + 10$

REVIEW EXERCISES

Find the distance between each pair of points with the given coordinates. Then, find the midpoint of the segment that has endpoints at the given coordinates.

11. $(1, -6), (-3, -4)$

12. $(a, b), (a + 3, b + 4)$

Lesson 10-6 *(Pages 662–669)*

Identify the conic section represented by each equation. Then write the equation in standard form.

1. $x^2 + y^2 - 8x + 2y + 13 = 0$

2. $x^2 - 4y^2 + 10x - 16y = -5$

18. $3x^2 + 3y^2 + 6x + 12y - 60 = 0$

22. $6x^2 + 4y^2 + 24x - 32y + 64 = 0$

28. $9x^2 - 16y^2 - 36x - 96y + 36 = 0$