

Name: _____

Date _____

Topic: Parabola- Find the Focus, Vertex and the directrix - Worksheet 1

Find the Focus, Vertex and the directrix:

1. $x^2 - 3x - 5y + 2 = 0$

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

3. $x^2 - 3x + 9y - 45 = 0$

4. $x^2 - 4x + 8y - 5 = 0$

5. $x^2 - 5x + 3y + 18 = 0$

6. $x^2 + 3x + 3y + 3 = 0$

7. $x^2 + 7y - 28 = 0$

8. $x^2 - 3x - 5y + 6 = 0$

9. $x^2 - 3x - 5y - 10 = 0$

10. $x^2 - 5y - 15 = 0$



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Topic: Parabola- Find the Focus, Vertex and the directrix - Worksheet 2

Find the Focus, Vertex and the directrix:

1. $x^2 - 4x - 2y + 6 = 0$

2. $x^2 - 4x - 8y - 12 = 0$

3. $x^2 - 2x + 8y - 16 = 0$

4. $x^2 - 5x + 5y - 10 = 0$

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

6. $x^2 + 4x + 4y + 4 = 0$

7. $x^2 + 5y - 15 = 0$

8. $x^2 - 4x - 2y + 8 = 0$

9. $x^2 - 5x - 10y - 15 = 0$

10. $x^2 - 4y - 16 = 0$



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Topic: Parabola- Find the Focus, Vertex and the directrix - Worksheet 3

Find the Focus, Vertex and the directrix:

1. $x^2 - 2x - 8y + 10 = 0$

2. $x^2 - 3x - 9y - 15 = 0$

3. $x^2 - 4x + 8y - 12 = 0$

4. $x^2 - 2x + 4y - 6 = 0$

5. $x^2 - 3x + 6y + 9 = 0$

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

7. $x^2 + 6y - 12 = 0$

8. $x^2 - 5x - 2y + 6 = 0$

9. $x^2 - 6x - 3y - 18 = 0$

10. $x^2 - 3y - 12 = 0$



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Topic: Parabola- Find the Focus, Vertex and the directrix - Worksheet 4

Find the Focus, Vertex and the directrix:

1. $x^2 - 3x - 2y + 8 = 0$

2. $x^2 - 9x - 3y - 12 = 0$

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

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

5. $x^2 - 4x + 2y + 16 = 0$

6. $x^2 + 8x + 4y + 8 = 0$

7. $x^2 + 5y - 20 = 0$

8. $x^2 - 2x - 4y + 8 = 0$

9. $x^2 - 3x - 6y - 21 = 0$

10. $x^2 - 4y - 20 = 0$



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Topic: Parabola- Find the Focus, Vertex and the directrix - Worksheet 5

Find the Focus, Vertex and the directrix:

1. $x^2 - 4x - 6y + 12 = 0$

2. $x^2 - 8x - 6y - 18 = 0$

3. $x^2 - 4x + 8y - 16 = 0$

4. $x^2 - 6x + 2y - 8 = 0$

5. $x^2 - 9x + 3y + 18 = 0$

6. $x^2 + 2x + 6y + 9 = 0$

7. $x^2 + 4y - 24 = 0$

8. $x^2 - 2x - 6y + 16 = 0$

9. $x^2 - 5x - 10y - 20 = 0$

10. $x^2 - 5y - 25 = 0$

