Name: _____   Date _____

Topic : <u>Hyperbolas - Write the equation in standard form - Worksheet 1</u>

Write the standard equation of each Hyperbola:

1. $49x^2 - y^2 = 49$ **2.** $x^2/81 - (y + 2)^2/64 = 1$

3. $(x - 2)^2/4 - y^2/16 = 1$ **4.** $x^2/4 - 4y^2/100 = 4$

5. $64x^2 - (y + 4)^2 = 64$ **6.** $x^2 - 6y^2 = 54$

7. $4x^2/4 - y^2/4 = 16$ **8.** $49x^2 - 7y^2 - 49 = 0$

9. $169x^2 - y^2 = 169$ **10.** $(x + 4)^2/144 - y^2/121 = 1$

Name: _____   Date _____

Topic : <u>Hyperbolas - Write the equation in standard form - Worksheet 2</u>

Write the standard equation of each Hyperbola:

1. $4x^2 - 9y^2 = 36$ **2.** $x^2/121 - (y + 4)^2/196 = 1$

3. $(x - 3)^2/81 - y^2/25 = 1$ **4.** $3x^2/81 - 3y^2/9 = 3$

5. $121x^2 - (y + 4)^2 = 121$ **6.** $7x^2 - y^2/7 = 7$

7. $8x^2/1 - y^2/4 = 32$ **8.** $16x^2 - 4y^2 - 64 = 0$

9. $4x^2 - y^2 = 16$ **10.** $(x + 4)^2/36 - y^2/25 = 1$

Name: _____   Date _____

Topic : <u>Hyperbolas - Write the equation in standard form - Worksheet 3</u>

Write the standard equation of each Hyperbola:

1. $9x^2 - 4y^2 = 36$ **2.** $x^2/144 - (y + 3)^2/256 = 1$

3. $(x - 2)^2/64 - y^2/9 = 1$ **4.** $x^2/16 - 2y^2/8 = 4$

5. $144x^2 - (y + 3)^2 = 144$ **6.** $6x^2 - y^2/6 = 6$

7. $4x^2/1 - y^2/9 = 16$ **8.** $15x^2 - 5y^2 - 75 = 0$

9. $3x^2 - y^2 = 27$ **10.** $(x + 6)^2/64 - y^2/16 = 1$

Name: _____   Date _____

Topic : <u>Hyperbolas - Write the equation in standard form - Worksheet 4</u>

Write the standard equation of each Hyperbola:

1. $5x^2 - 45y^2 = 45$ **2.** $x^2/196 - (y + 2)^2/225 = 1$

3. $(x - 1)^2/81 - y^2/16 = 1$ **4.** $x^2/27 - 3y^2/9 = 3$

5. $100x^2 - (y + 3)^2 = 100$ **6.** $5x^2 - y^2/5 = 5$

7. $2x^2/1 - y^2/2 = 8$ **8.** $25x^2 - 4y^2 - 100 = 0$

9. $4x^2 - y^2 = 36$ **10.** $(x + 5)^2/81 - y^2/9 = 1$

Name: _____   Date _____

Topic : <u>Hyperbolas - Write the equation in standard form - Worksheet 5</u>

Write the standard equation of each ellipse:

1. $5x^2 - 25y^2 = 25$ **2.** $x^2/169 - (y + 2)^2/324 = 1$

3. $(x - 4)^2/64 - y^2/16 = 1$ **4.** $x^2/49 - 4y^2/16 = 4$

5. $289x^2 - (y + 4)^2 = 289$ **6.** $8x^2 - y^2/8 = 8$

7. $7x^2/1 - y^2/4 = 28$ **8.** $25x^2 - 5y^2 - 125 = 0$

9. $9x^2 - y^2 = 36$ **10.** $(x + 5)^2/25 - y^2/16 = 1$