

## Hyperbolas

Use the information provided to write the standard form equation of each hyperbola.

1)  $x^2 - 4y^2 + 8x - 16y - 100 = 0$

2)  $x^2 - 4y^2 + 10x - 72y - 399 = 0$

3)  $-x^2 + 16y^2 + 14x - 64y - 49 = 0$

4)  $-x^2 + 40y^2 - 6x - 209 = 0$

5)  $4x^2 - 49y^2 - 72x + 196y - 68 = 0$

6)  $4x^2 - 3y^2 + 24x + 48y - 216 = 0$

7)  $64x^2 - 9y^2 - 384x + 72y - 144 = 0$

8)  $-11x^2 + 8y^2 - 88x + 160y + 184 = 0$

9)  $-25x^2 + 9y^2 - 150x + 90y - 225 = 0$

10)  $-4x^2 + 25y^2 - 16x + 100y - 316 = 0$