

Write standard equation for the parabola. State the vertex.

1. $x^2 + 10x - 4y + 1 = 0$

2. $y^2 + 8x - 2y - 15 = 0$

3. $x^2 + 10x - 6y + 7 = 0$

4. $x^2 - 14x - 9y = -22$

Write the equation in standard form:

5. Focus = $(-4, -4)$; directrix: $y = 0$

6. Focus = $(1, -1)$; directrix: $x = -5$

7. Focus = $(-2, -1)$; directrix: $x = 2$

8. Focus = $(-3, 4)$; directrix: $y = -2$

GSE PreCalculus
WS 2.2: Writing Equations of Parabolas

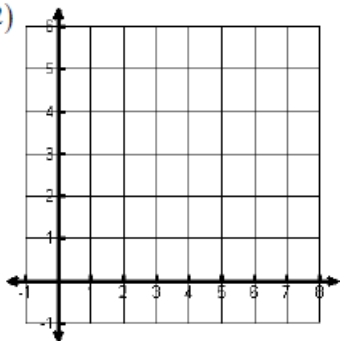
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4. $(x-4)^2 = 4(y-2)$

Vertex: _____

Focus: _____

Directrix:



5. $(y-1)^2 = 12(x+2)$

Vertex: _____

Focus: _____

Directrix:

