Conic Sections: CS7

Determine which equation matches which graph.

___a. $9x^2 - 54x + 4y^2 + 16y + 61 = 0$

___b. $49x^2 - 392x - 25y^2 - 441 = 0$

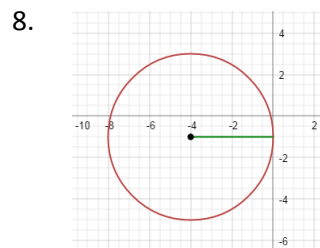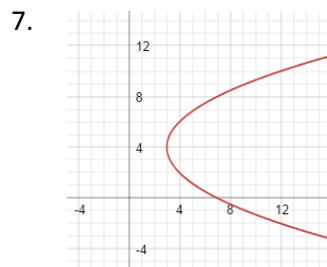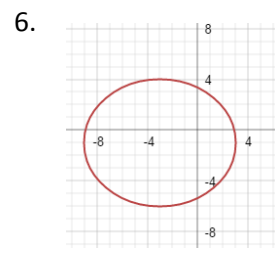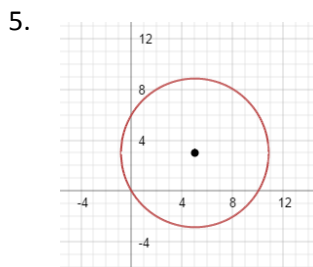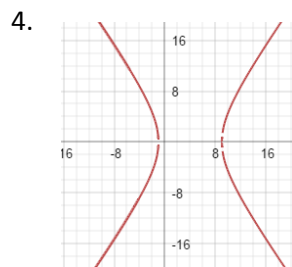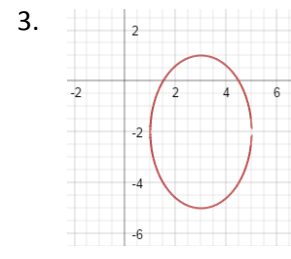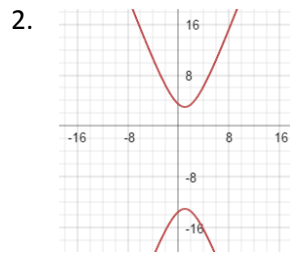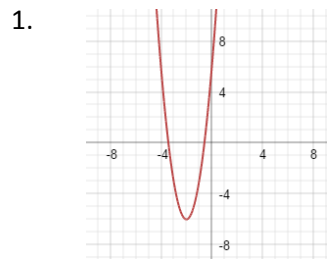___c. $x - \frac{1}{4}y^2 + 2y - 7 = 0$

___d. $9y^2 + 90y - 64x^2 + 128x - 415 = 0$

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

___f. $2x^2 + 16x + 2y^2 + 4y + 2 = 0$

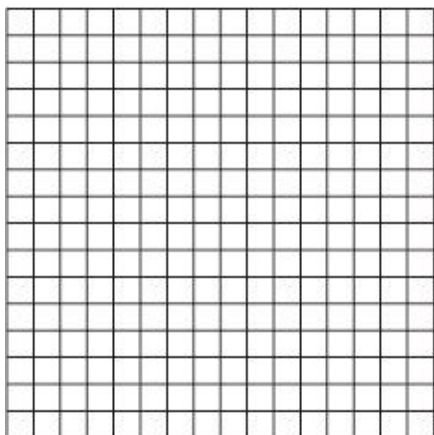___g. $25x^2 + 150x + 36y^2 + 72y - 639 = 0$ ___h. $y - 3x^2 - 12x - 6 = 0$

1.

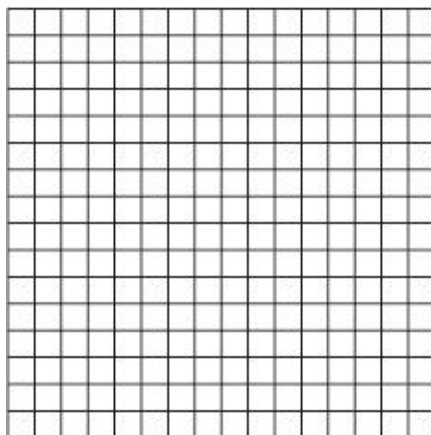2.

3.

4.

5.

6.

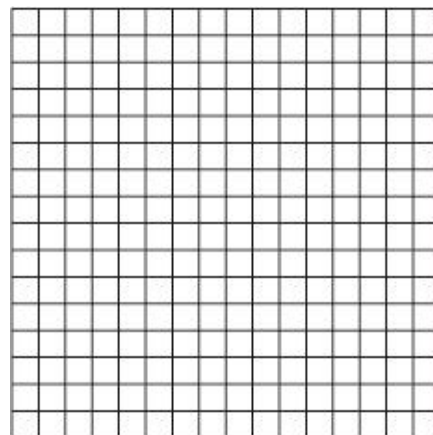7.

8.

Graph the following:
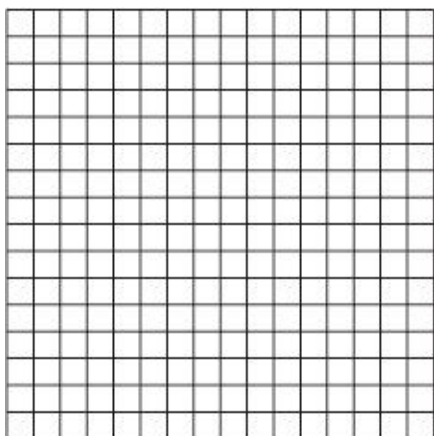
i. $(x + 2)^2 + (y - 2)^2 = 16$

j. $\frac{(y+1)^2}{25} - \frac{(x+2)^2}{4} = 1$
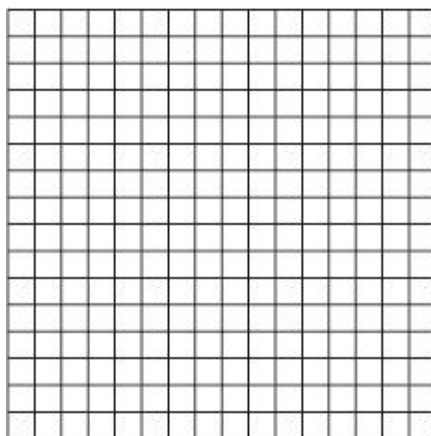
k. $y = -2(x + 3)^2$

l. $x = 2(y - 3)^2 - 5$

m. $\frac{x^2}{25} + \frac{(x+2)^2}{4} = 1$

n. $\frac{(x-1)^2}{9} - \frac{(y-2)^2}{4} = 1$