MORE PRACTICE: Graphing Conics

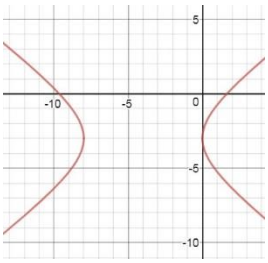
Determine which equation matches which graph.

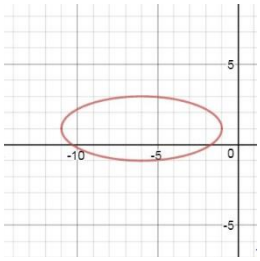
___a. $9x^2 + 72x - 16y^2 - 96y - 144 = 0$ ___b. $4x^2 + 48x + 25y^2 - 50y + 69 = 0$

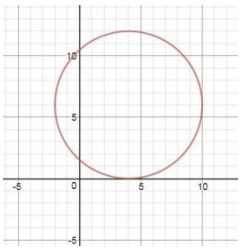
___c. $x^2 + 10x + y^2 - 6y + 18 = 0$ ___d. $-25x^2 + 50x + 9y^2 + 36y - 214 = 0$

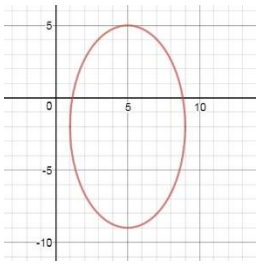
___e. $x^2 - 8x - y + 20 = 0$ ___f. $49x^2 - 490x + 16y^2 + 64y + 505 = 0$

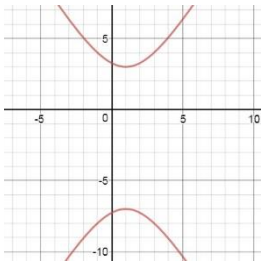
___g. $x^2 - 8x + y^2 - 12y + 16 = 0$ ___h. $y^2 + 2y - 2x - 11 = 0$

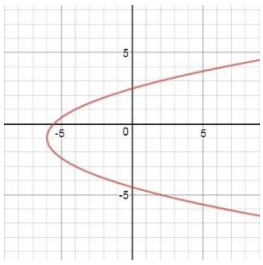
1. 

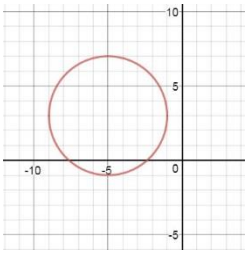
2. 

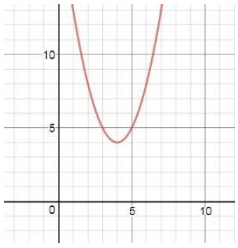
3. 

4. 

5. 

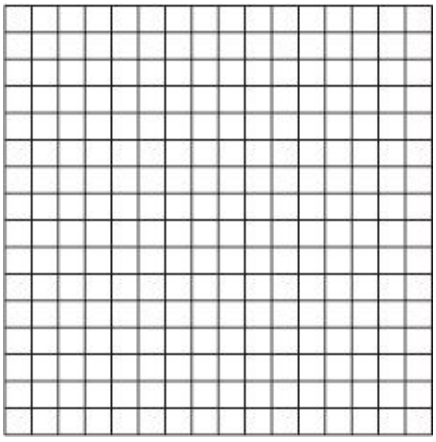
6. 

7. 

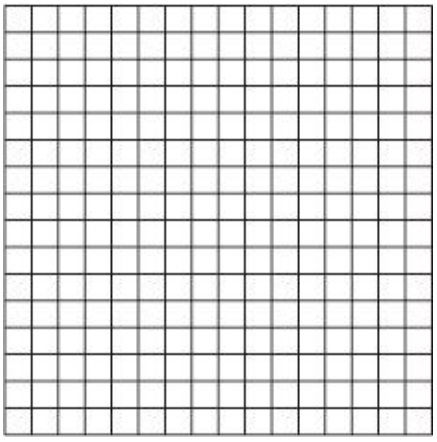
8. 

Graph the following:

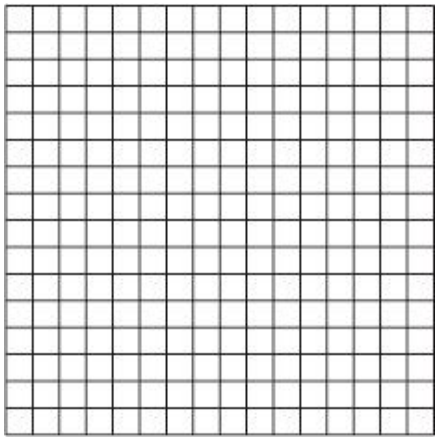
i. $y = \frac{1}{2}(x-1)^2$



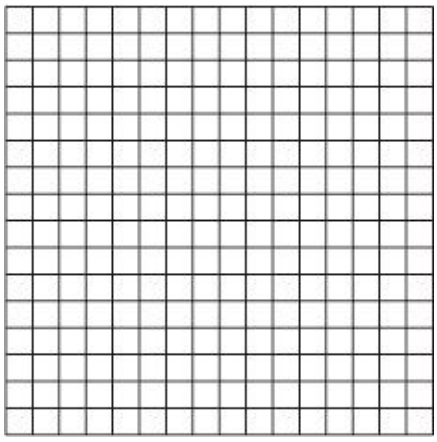
j. $\frac{(x-2)^2}{16} + \frac{(y+2)^2}{36} = 1$



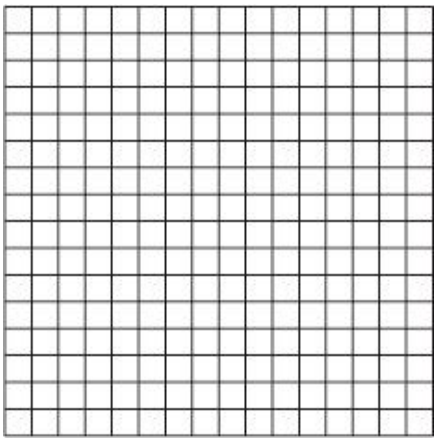
k. $\frac{(x+3)^2}{4} - \frac{(y+1)^2}{25} = 1$



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



m. $(x-4)^2 + (y+3)^2 = 9$



n. $\frac{y^2}{9} - \frac{(x-3)^2}{16} = 1$