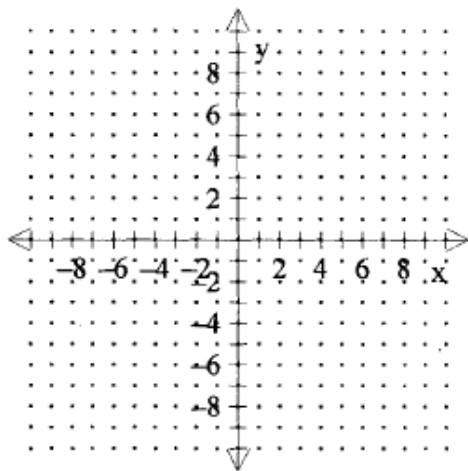


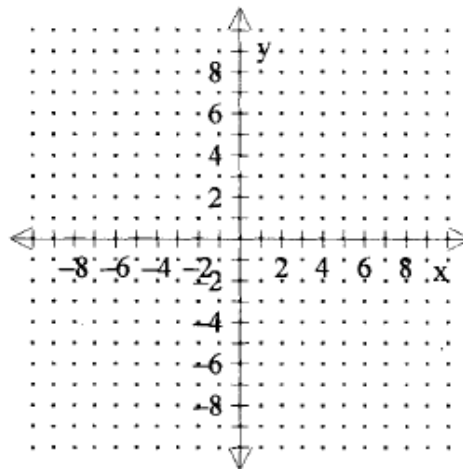
Graphing Practice

First Semester Final Exam Ch 1-3, 5, 10, 6, 7

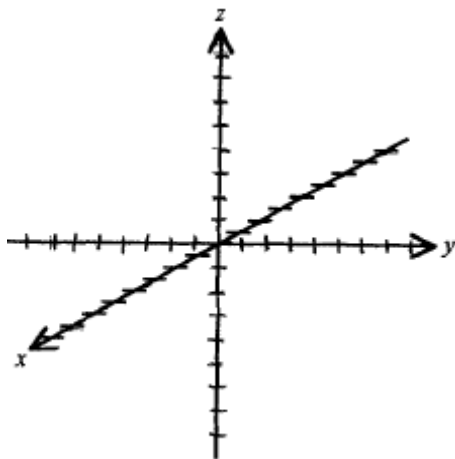
1. $y = \frac{-2}{3}|x - 4| - 2$



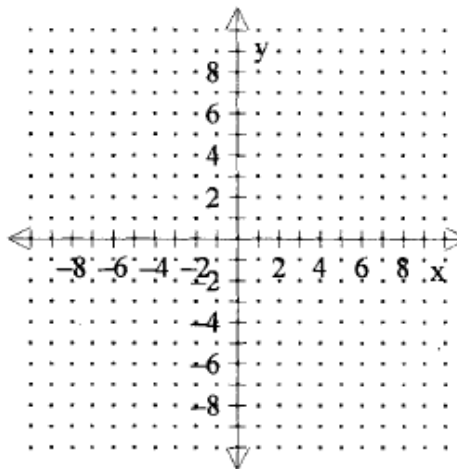
2. $f(x) = \begin{cases} \frac{1}{2}x - 1, & \text{if } x > -2 \\ -2x + 1, & \text{if } x \leq -2 \end{cases}$



3. $-3x + 2y - 6z = 18$

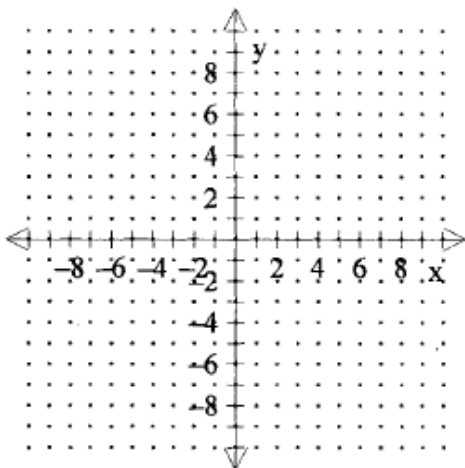


4. the system:
 $-5 < x < 4$
 $2x - 5y \geq 10$



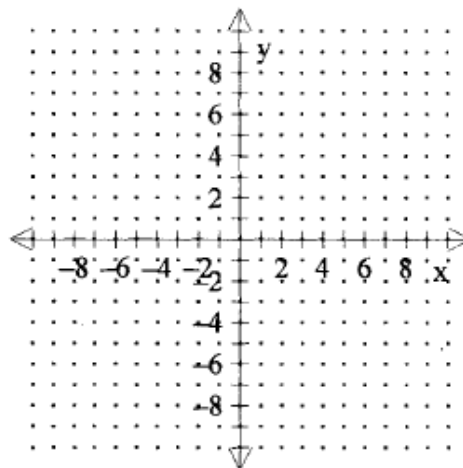
5. $y = 2x^2 - 4x - 3$

Locate vertex and axis of symmetry.



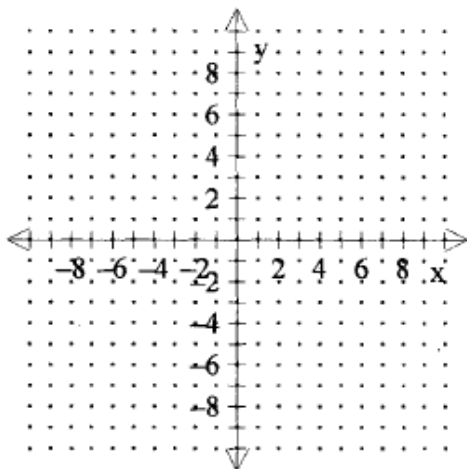
6. $y = \frac{-1}{2}(x+4)(x-2)$

Locate vertex and x-intercepts.



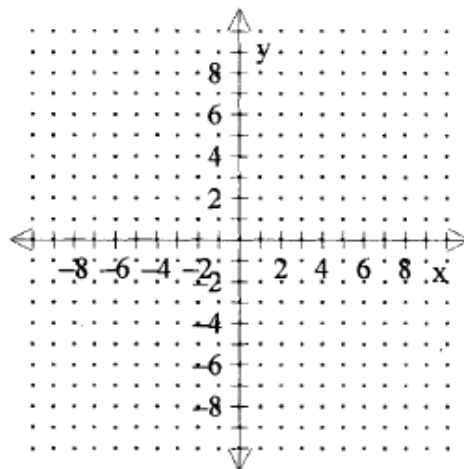
$$7. y + 5 = \frac{-1}{8}(x - 2)^2$$

Locate vertex, focus, and directrix, and axis of symmetry.

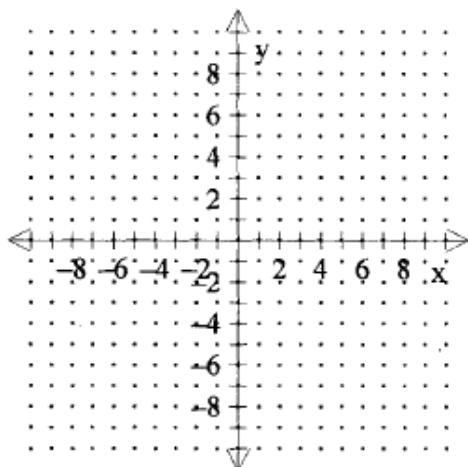


$$8. \frac{(x-2)^2}{16} + \frac{(y+1)^2}{36} = 1$$

Locate center, vertices, co-vertices, and foci.

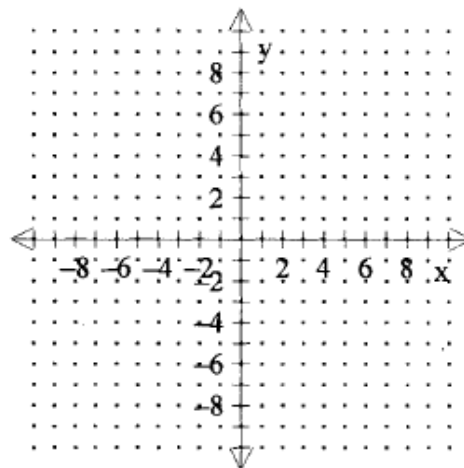


$$9. y = \frac{-1}{2}\sqrt{x+2} + 5$$



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

Locate vertex, focus, directrix, and axis of symmetry.



$$11. y^2 - 3x^2 - 6x - 4y - 8 = 0$$

Locate vertices, foci, and asymptotes.

