Honors Math II

Mid chapter 4 Review WS

Name_____

Period_____Date_____

Solve for x.

1. $2x^2 + 5x + 3 = 0$

2. $3x^2 + 7x + 4 = 0$

3. $6x^2 + 5x + 1 = 0$

4. $11x^2 + 2x - 9 = 0$

5. $5x^2 + 14x - 3 = 0$

6. $9x^2 - 1 = 0$

7. $4x^2 - 25 = 0$

8. $x^2 + 14x + 49 = 0$

9. $x^2 - 24x + 144 = 0$

10. $x^2 - 121 = 0$

11. $2x^2 + 23x + 11 = 0$

12. $x^2 + 6x + 5 = 0$

13. $7x^2 + 22x + 3 = 0$

14. $7x^2 + 4x - 3 = 0$

15. $x^2 - 4x - 12 = 0$

16. $x^2 - 7x - 18 = 0$

17. $2x^2 + 9x - 11 = 0$

18. $2x^2 - 9x - 11 = 0$

19. $x^2 + 10x + 25 = 0$

20. $x^2 - 16x + 48 = 0$

21. $4x^2 - 9 = 0$

22. $x^2 - 25 = 0$

23. $9x^2 - 36 = 0$

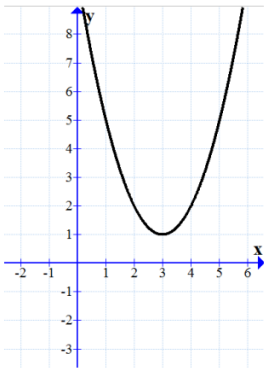
24. $x^2 - 16x + 64 = 0$

25. $15x^2 + 7x - 2 = 0$

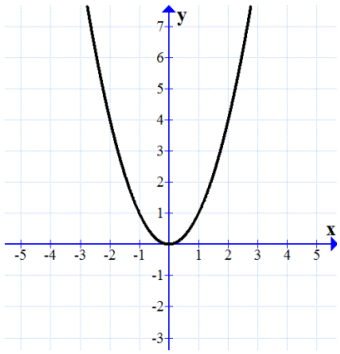
26. $6x^2 - 7x - 5 = 0$

Write the equation for the following graphs.

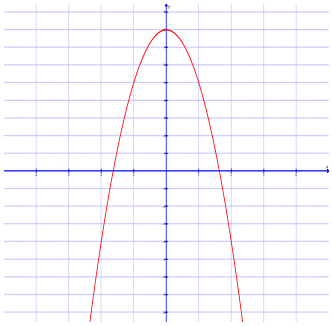
27.



28.



29.

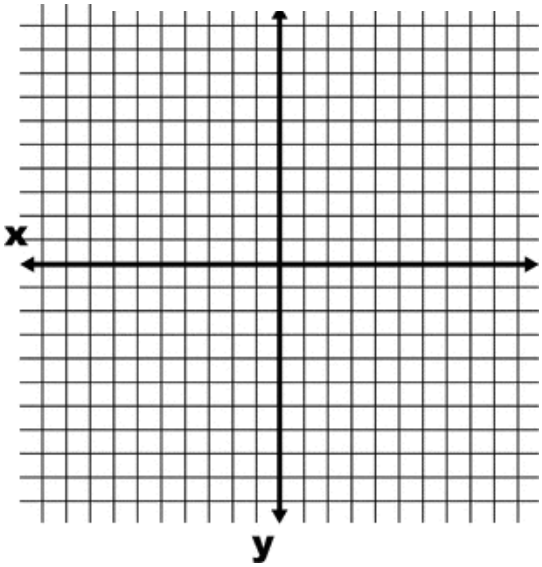


Graph the following equations.

30. $f(x) = -x^2 + 4x + 5$

x-intercept(s):

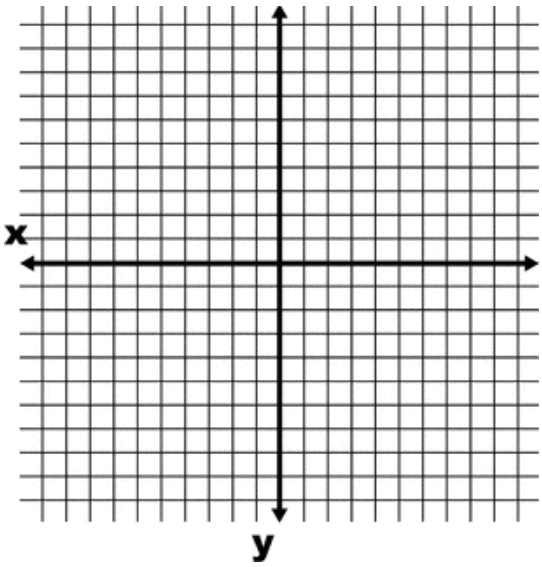
y-intercept:



31. $g(x) = -3(x-3)^2$

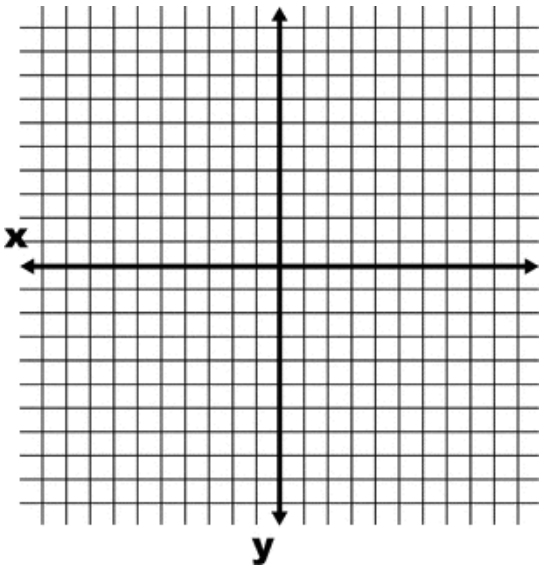
x-intercept(s):

y-intercept:



33. $f(x) = (x+2)^2 - 8$

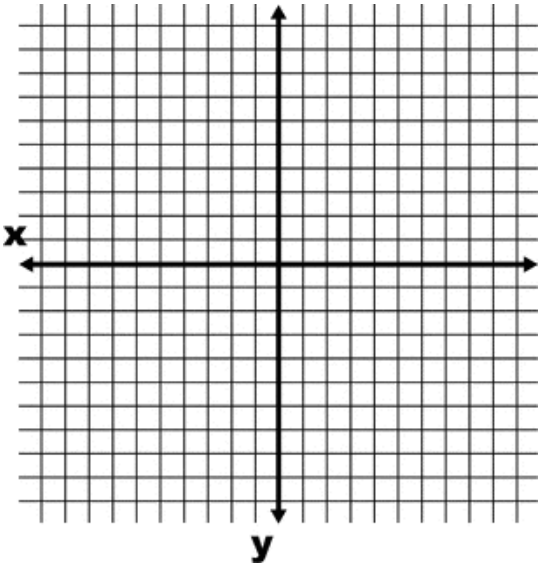
Write the end behavior and interval of increase and decrease.



34. $f(x) = -2(x-6)(x-1)$

Vertex:

Max/Min:



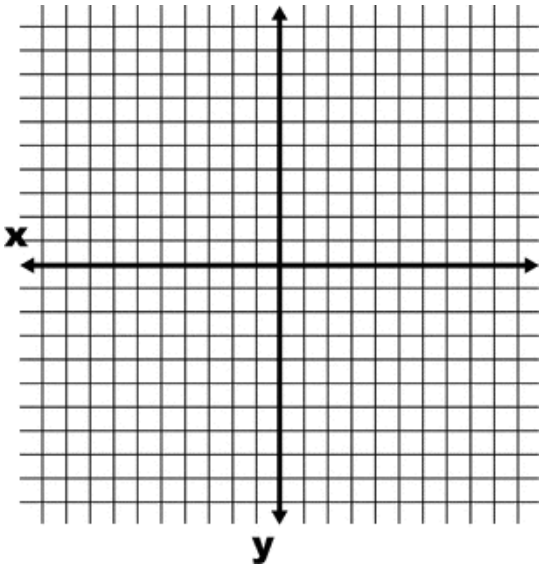
Write the quadratic equation for the given information.

35. $(-6, 0), (2, 0), (0, -16)$

36. $(2, 0), (-2, 0), (0, 6)$

37.

x	y
0	8
1	3
2	0
3	-1
4	0



38.

x	y
2	7
3	-2
4	-5
5	-2
6	7