East Los Angeles College
Department of Mathematics
Math 125
Practice Test 3

Show all work for credit.

Solve the following for x

1) $x^2 - 4x + 2 = 0$

2) $2x^2 - 3x - 4 = 0$

3) $\sqrt{x+4} = 2$

4) $4\sqrt{x} - 1 = 7$

5) $5\sqrt{x} - 7 = -22$

6) $4\sqrt{x+2} - 7 = 9$

Solve the following equations for x by completing the square.

7) $x^2 - 8x - 4 = 0$

8) $2x^2 - 12x + 5 = 0$

$$y = x^2 - 4x + 3$$

9. Complete the square to write in graphing form.

Determine:

10. Vertex

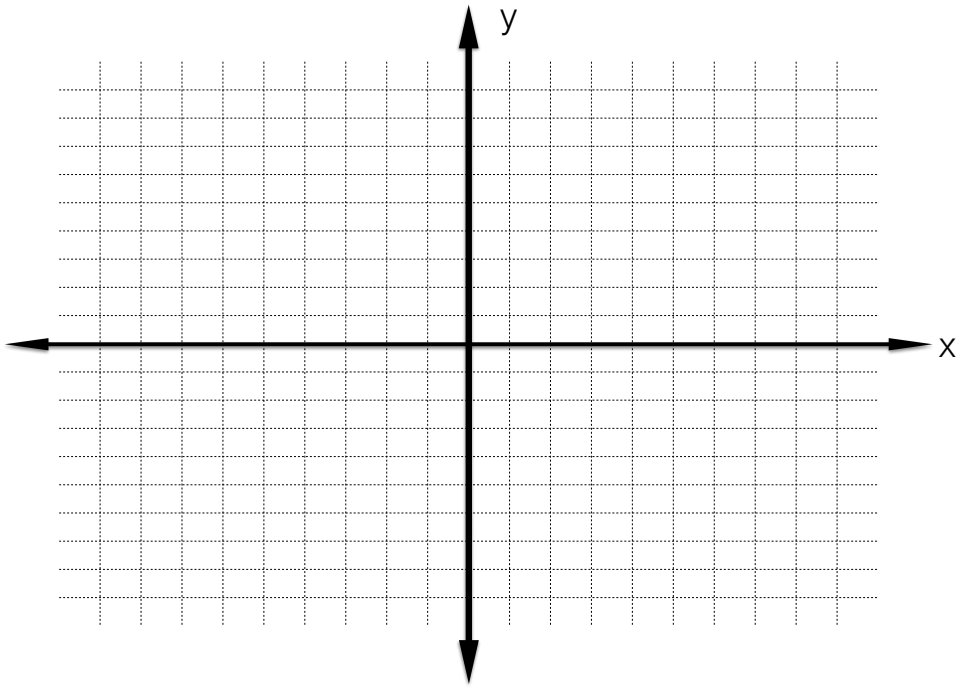
11. Axis of symmetry

12. Opens up/down

13. x-intercepts, if any, see problem 1.

14. y-intercepts.

15. Sketch the curve.



$$y = -2x^2 + 10x + 5$$

16. Complete the square to write in graphing form.

Determine:

17. Vertex

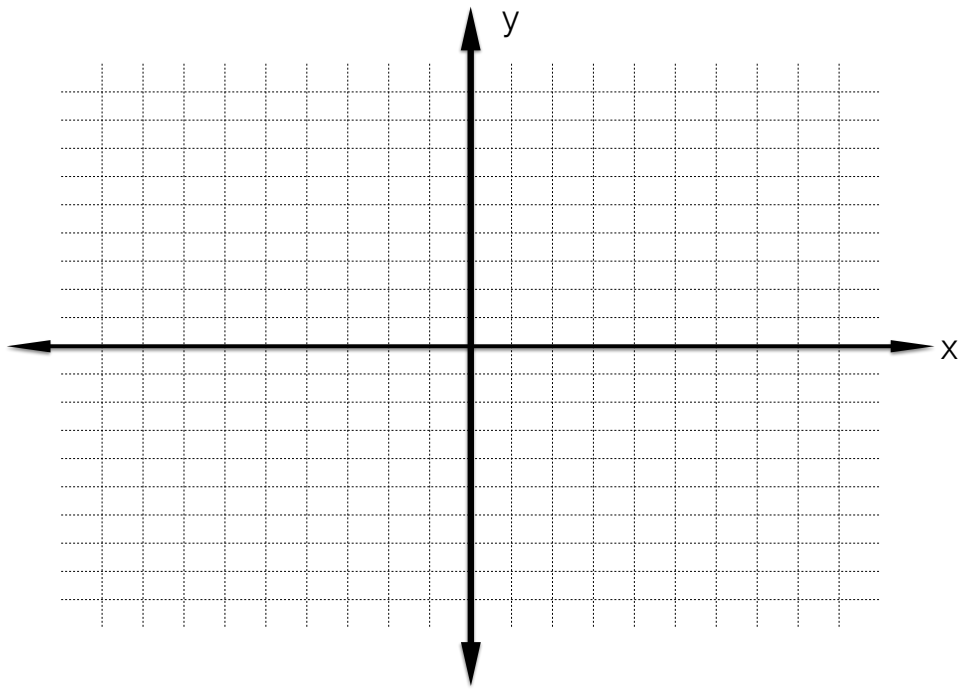
18. Axis of symmetry

19. Opens up/down

20. x-intercepts, if any, see problem 3.

21. y-intercepts.

22. Sketch the curve.


y
x

Answer Sheet

1		12	
2		13	
3		14	
4		15	Use Graph on Test Sheet
5		16	
6		17	
7		18	
8		19	
9		20	
10		21	
11		22	Use Graph on Test Sheet