

8-2 Homework

Math 1

Quadratic Matching Match items from columns A, B, C and the GRAPHS.

A

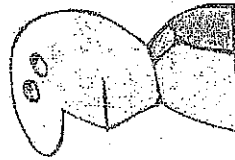
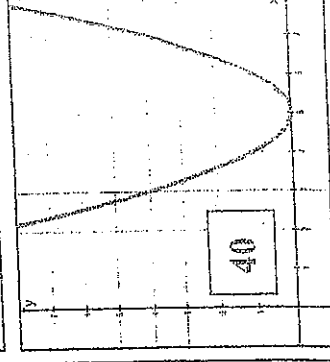
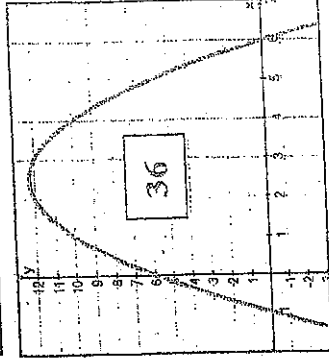
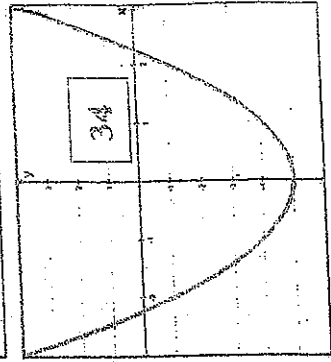
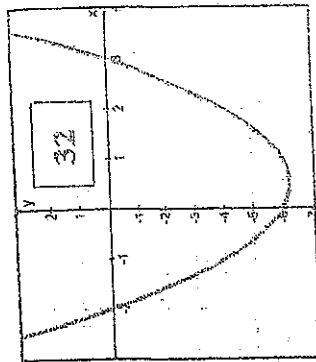
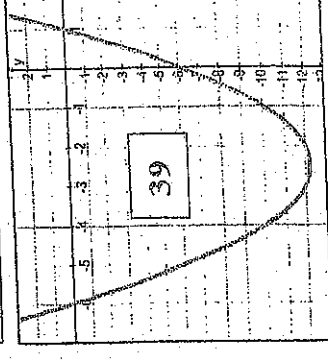
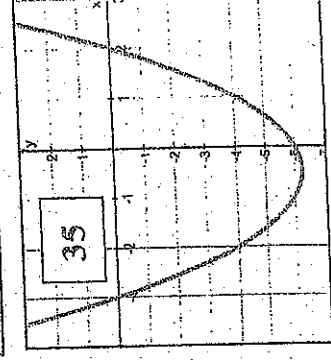
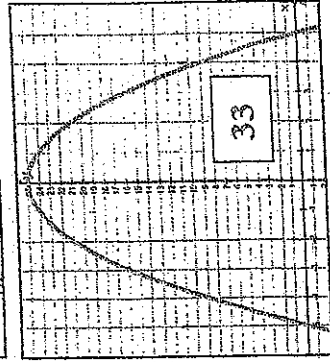
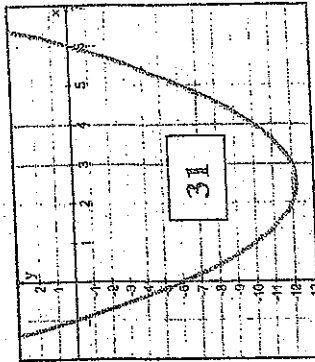
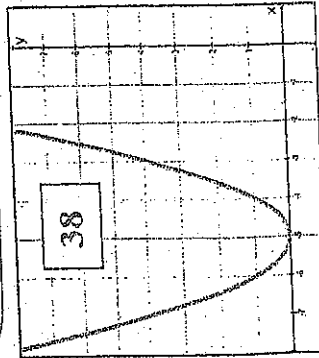
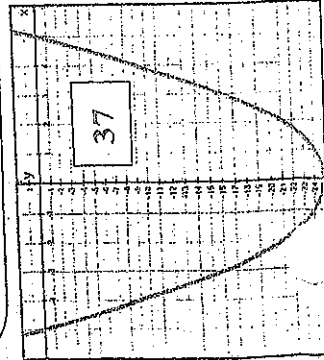
1. $x^2 + x - 6 = y$
2. $x^2 - x - 6 = y$
3. $x^2 + 5x - 6 = y$
4. $x^2 - 5x - 6 = y$
5. $-x^2 + 5x + 6 = y$
6. $x^2 - 25 = y$
7. $x^2 - 10x + 25 = y$
8. $x^2 + 10x + 25 = y$
9. $-x^2 + 25 = y$
10. $x^2 - 5 = y$

B

11. $(x-1)(x+6) = 0$
12. $(x-5)(x-5) = 0$
13. $(x+1)(x-6) = 0$
14. $(x+3)(x-2) = 0$
15. $(x+5)(x+5) = 0$
16. $(5-x)(5+x) = 0$
17. $(6-x)(1+x) = 0$
18. $(x-3)(x+2) = 0$
19. $(x+\sqrt{5})(x-\sqrt{5}) = 0$
20. $(x-5)(x+5) = 0$

C

21. $x = 1; x = -6$
22. $x = -5; x = 5$
23. $x = -1; x = 6$
24. $x = -\sqrt{5}; x = \sqrt{5}$
25. $x = -5$
26. $x = 3; x = -2$
27. $x = 5$
28. $x = -5; x = 5$
29. $x = -1; x = 6$
30. $x = -3; x = 2$



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Fill in your matches from the front in the spaces below.

1. _____, _____

2. _____, _____

3. _____, _____

4. _____, _____

5. _____, _____

6. _____, _____

7. _____, _____

8. _____, _____

9. _____, _____

10. _____, _____

Identify a, b and c.

1. $x^2 + x - 6 = y$

2. $x^2 - x - 6 = y$

3. $x^2 + 5x - 6 = y$

4. $x^2 - 5x - 6 = y$

5. $-x^2 + 5x + 6 = y$

6. $x^2 - 25 = y$

7. $x^2 - 10x + 25 = y$

8. $x^2 + 10x + 25 = y$

9. $-x^2 + 25 = y$

10. $x^2 - 5 = y$

Identify the vertex of each parabola. Is it a minimum or maximum?

1. $x^2 + x - 6 = y$

2. $x^2 - x - 6 = y$

3. $x^2 + 5x - 6 = y$

4. $x^2 - 5x - 6 = y$

5. $-x^2 + 5x + 6 = y$

6. $x^2 - 25 = y$

7. $x^2 - 10x + 25 = y$

8. $x^2 + 10x + 25 = y$

9. $-x^2 + 25 = y$

10. $x^2 - 5 = y$

Identify the axis of symmetry for each parabola.

1. $x^2 + x - 6 = y$

2. $x^2 - x - 6 = y$

3. $x^2 + 5x - 6 = y$

4. $x^2 - 5x - 6 = y$

5. $-x^2 + 5x + 6 = y$

6. $x^2 - 25 = y$

7. $x^2 - 10x + 25 = y$

8. $x^2 + 10x + 25 = y$

9. $-x^2 + 25 = y$

10. $x^2 - 5 = y$