

Student Activity 4

Matching cards activity: Match the cards into 7 sets taking one card from each group. Discuss reasoning and be able to explain decisions.

Set A

1. $y=(x-3)(x-3)$	2. $y=(x+2)(x+4)$	3. $y=(x+1)(3-x)$
4. $y=(x-2)(6-x)$	5. $y=(x-4)(x+2)$	6. $y=(x-4)(x-6)$

Set B

7. $y=-x^2+2x+3$	8. $y=x^2+6x+8$	9. $y=x^2-6x+9$
10. $y=x^2-10x+24$	11. $y=x^2-2x-8$	12. $y=-x^2+8x-12$

Set C

13. $y=(x-5)^2-1$	14. $y=-(x-4)^2+4$	15. $y=(x-1)^2-9$
16. $y=-(x-1)^2+4$	17. $y=(x+3)^2-1$	18. $y=(x-3)^2$

Set D

19. $x=0, y=9$	20. $x=0, y=8$	21. $x=0, y=-8$
22. $x=0, y=-12$	23. $x=0, y=3$	24. $x=0, y=24$

Set E

25. $y=0,$ $x=-1$ or 3	26. $y=0,$ $x=-2$ or $+4$	27. $y=0,$ $x=2$ or 6
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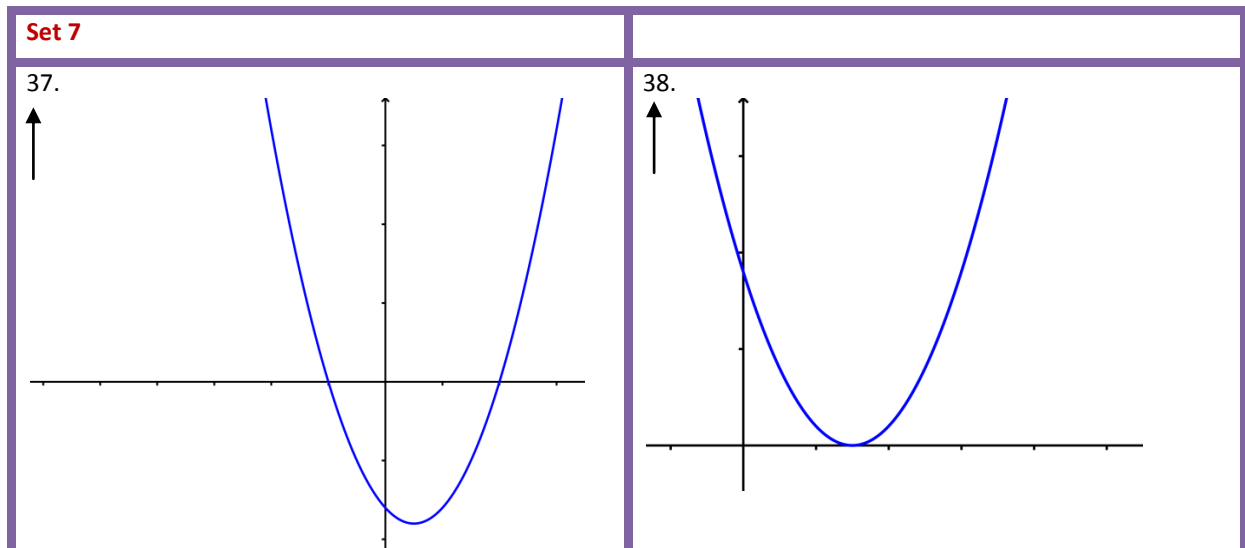
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28. $y=0,$ $x=4$ or 6	29. $y=0,$ $x=3$	30. $y=0,$ $x=-2$ or -4
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Set F

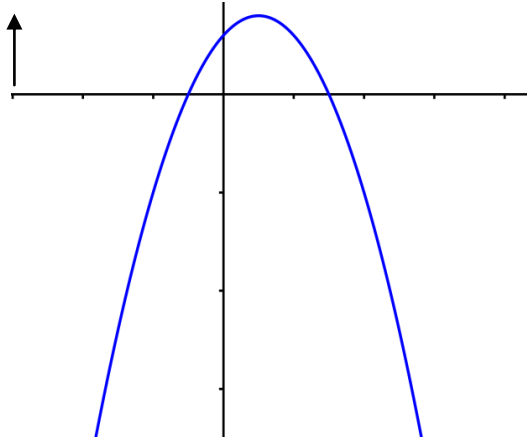
31. local maximum at $(1,4)$	32. local minimum at $(5,-1)$	33. local minimum at $(1,-9)$
34. local minimum at $(-3,-1)$	35. local maximum at $(4,4)$	36. local minimum at $(3,0)$

Set 7

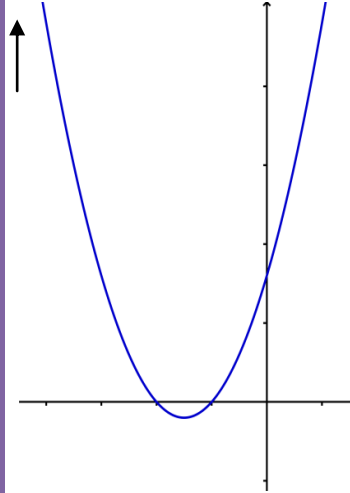


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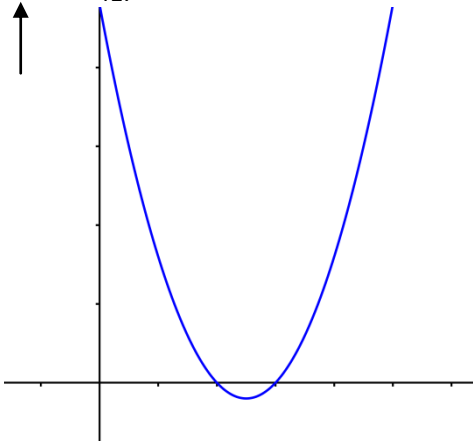
39.



40.



41.



42.

