

Core Algebra 2
Worksheet 2.4B

NAME _____

Write an equation of the parabola in vertex form.

1. passes through (2,5) and has vertex (1,2)
2. passes through (-2,5) and has vertex (-1,3)
3. passes through (2,-3) and has vertex (0,-4)
4. passes through (-1,-1) and has vertex (-2,-5)
5. passes through (3,-2) and has vertex (2,0)
6. passes through (2,2) and has vertex (3,5)
7. passes through (-5,-2) and has vertex (-2,-1)
8. passes through (-5,-3) and has vertex (-3,1)

Write an equation of the parabola in intercept form.

9. x -intercepts: -1 and 3; passes through (1,1)
10. x -intercepts: 2 and 8; passes through (4,-2)
11. x -intercepts: -5 and -1; passes through (-3,-4)
12. x -intercepts: 0 and 4; passes through (3,-6)
13. x -intercepts: -2 and -5; passes through (-1,5)
14. x -intercepts: -2 and -6; passes through (-3,4)
15. x -intercepts: -3 and 2; passes through (-2,-5)
16. x -intercepts: 2 and -3; passes through (1,5)

Write an equation of the parabola in intercept form.

17. passes through (3,13)(-1,9)(2,3)
18. passes through (1,3)(4,9)(2,1)