Find the vertex and the line of symmetry.

17. $y = -x^2 + 10x - 34$

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

19. $y = -4x^2 + 12x - 7$

20. $y = -9x^2 + 6x + 2$

21. $y = 4x^2 - 1$

22. $y = x^2 - 16$

LIVEWORKSHEETS