Changing Forms of Quadratics

Convert each function to standard form. Give the vertex and y-intercept. Graph. Check your work on the calc.

15) $y = (x + 4)^2 - 5$ 16) $f(x) = (x - 2)^2 + 3$ 17) $y = (x - 1)^2 + 4$ 18) $f(x) = (x + 3)^2 - 1$

Convert each function to factored form. Give the x and y intercepts. Graph. Show the line of symmetry.

19) $y = x^2 - 4x - 5$ 20) $y = x^2 + 6x$ 21) $f(x) = x^2 + 2x - 8$ 22) $y = x^2 - 6x - 7$

Convert each function to standard form. Give the x and y intercepts. Graph. Show the line of symmetry.

23) $f(x) = (x + 2)(x - 3)$ 24) $f(x) = (x - 4)(x - 2)$ 25) $y = (x + 5)(x - 1)$ 26) $f(x) = (x + 3)(x + 4)$

Convert each function to vertex form. Give the vertex and y intercept. Graph. Check your work on the calc.

35) $y = x^2 + 6x + 8$ 36) $y = x^2 + 10x + 21$ 37) $y = x^2 + 2z$ 38) $f(x) = x^2 + 8x + 7$