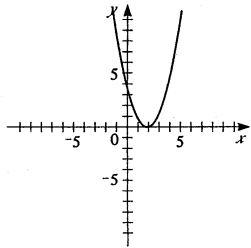17. $f(x) = (x-2)^2$. Shift the graph of $y = x^2$ to the right 2 units.

19. $f(x) = -(x+1)^2$. Shift the graph of $y = x^2$ to the left 1 unit, then reflect about the x-axis.