

(1)[4 points] Suppose the points $(-2, 1)$ and $(3, -4)$ are on the graph of $y = f(x)$. Find the corresponding points if the graph of f is shifted 1 unit up and 4 units to the left,

(2)[3 points] The graph of $f(x) = x^4$ is reflected in the x -axis and shifted left 7 units. Find the equation of the resulting graph (do not graph.)

(3)[4 points] Find the point of intersection of $f(x) = 4x + 7$ and $g(x) = \frac{1}{3}x + \frac{10}{3}$.

(4)[3 points] Find the maximum value of $f(x) = 3x^2 - 8x + 1$.