- **2**. [12 points]
 - **a**. [2 points] The graph of an odd function y = f(x) contains the point (-2, 4). What other point must be in the graph of y = f(x)?

Answer:	(,)	

b. [2 points] The graph of an invertible function g(x) contains the point (3,7). What point must be in the graph of $y = g^{-1}(x)$?

Answer: (,).

- c. [4 points] The function h(x) is obtained by applying the following transformations to the function $y = \sqrt{1+x}$ in this exact order:
 - i) A vertical shift up by 5 units.
 - ii) A reflection about the y-axis.
 - iii) A horizontal compression by $\frac{1}{7}$.
 - iv) A horizontal shift to the left by 3 units .

Find a formula for h(x).

h(x) =_____

d. [4 points] Let $f(x) = (\sin(x^2) + 3)^2$ and $g(x) = x^2$. Find formulas for the functions h(x) and w(x) that satisfy:

ii) f(x) = h(g(x)) h(x) =