

Answer on Question #78191 – Math – Trigonometry Question

Which function transforms the graph of

$$y=x^2$$

so that it is first shifted down 4 units and is then reflected across the y-axis?

Solution

Since the function has the form $y=x^2$, the function $y=x^2-4$ is shifted 4 units below. Due to the fact that the function is quadratic, then its reflection with respect to the y axis will be the same function because $y=(-x)^2-4=x^2-4$.