TECHNIQUES IN GRAPHING



THE 7TH MOTHER FUNCTION:

The Greatest Integer Function (Also called the Floor Function or the Step Function.) y = x

Domain: (-∞, ∞) Range: Integers Z

Use the Mother Functions on **page 149**, the 7th Mother Function shown at left, and the order of operations shown below to complete the examples.









 $y = 3 + \sqrt{4 - x^2}$









3) For the point (2, -4) that lies on the graph of f, find the new coordinate on the translated function of f:

$$\begin{array}{c} -2f(x-1)-2 \\ & & & & & \\ (2,-4) \longrightarrow (2,8) \longrightarrow (3,8) \longrightarrow (3,6) \end{array}$$

EVEN AND ODD FUNCTIONS





Which of the Mother Functions are even? Odd? Neither?

