3-4A CREDIT RECOVERY Parent Graphs What Happens

Look at the equation and determine what **transformations occur.**
The types of transformations would be it reflects over the x-axis, stretches vertically, stretches horizontally, shift right, shift left, shift up, shift down.

1. $f(x) = -(x-3)^2 - 3$ _____

2. $f(x) = 2\sqrt{x+5} - 3$ _____

3. $f(x) = \dfrac{1}{2}(x-1)^3 + 4$ _____

4. $f(x) = -3\,|x+7| + 5$ _____

5. $f(x) = \dfrac{1}{x-2} + 4$ _____