Transformations of Functions Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Worksheet #4 Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_

Give the name of the parent function and describe the transformation represented. Then graph the transformation.

1) f(x) = -x + 4 2) f(x) = ½ x² - 5 3) f(x) = 3|-x + 2|

Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Transformation Transformation Transformation

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4) f(x) = -x³ 5) f(x) = - x² + 4 3) f(x) = -4|x| - 2

Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Transformation Transformation Transformation

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 Make up your own transformations. Describe them below. You must include functions from at least 3 of

 the function families and include at least 2 transformations in each one.