

MTH 30 LECTURE NOTES (Ojakian)

Topic 5: Transformation of Functions

OUTLINE (References: 1.5)

1. Basic Function Shapes
 2. Transforming Functions
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1. Basic Function Shapes

See Table 13 on pages 26, 27, 28 (in Section 1.1)

Also put exponential function.

2. Graph Transformations

Type 1 Problem: From equation graph it.

Type 2 Problem: From the graph, find the equation.

Issue: One transformation, or more than one transformation ...

- (a) Vertical Shift
- (b) Horizontal Shift
- (c) Vertical Stretch/Compression
- (d) Horizontal Stretch/Compression
- (e) Reflection: Across y axis
- (f) Reflection: Across x axis