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| **Topic 2.4: Exponential Function Manipulation** | **Transformations**  |
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**Practice Problem 1**

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| The function  is given by  Which of the following is an equivalent form for (a) (b) (c) (d)  |

**Practice Problem 2**

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| In the *xy-*plane, the function  given by  is a horizontal translation of the exponential function  given by Which of the following is an equivalent form for  that expresses  as a vertical dilation of (a) (b) (c) (d)  |

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| **Practice Problem 1 Solution:**(b) Using the property:  you can rewrite  |
| **Practice Problem 2 Solution:**(d) Using the property:  you can rewrite  The function represents a vertical dilation of the function  by a factor of  |

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