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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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