**2 TRUTHS AND A LIE A**

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**STATEMENTS**

1. has a slant asymptote.

2.

3. does not have a horizontal asymptote.

**WHICH STATEMENT IS THE LIE? EXPLAIN.**

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**2 TRUTHS AND A LIE B**

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**STATEMENTS**

1. Two of the functions above have a horizontal asymptote.

2. Two of the functions above have a slant asymptote.

3. Two of the functions above have identical left and right end behavior.

**WHICH STATEMENT IS THE LIE? EXPLAIN.**

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**MATCHING GRAPHS & EQUATIONS**

**CONNECT THE GRAPH OF EACH RATIONAL FUNCTION TO ITS EQUATION.**

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| --- | --- | --- |
| graph  ● | ● | graph  ● |
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| ● | ● | ● |

**CREATE A RATIONAL FUNCTION**

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| --- | --- |
|  | Has a slant asymptote. |
| As the x values increase without bound, the y values decrease without bound. | Horizontal asymptote of |

**COMPLETE THE LIMIT STATEMENTS**

**Determine which function must be written in the blanks of each pair of limit statements to create true statements regarding the end behavior.**

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**BUILDING RATIONAL FUNCTIONS**

**Arrange the expression pieces below (as numerators and denominators) to build functions with the following end behaviors. Each piece may only be used once.**

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