**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Seeing Structure in Expressions (A.SSE.2)**

Which expression is equivalent to $162x^{4}-144x^{2}+32$?

Select all that apply.

|  |  |  |
| --- | --- | --- |
| Statement | Yes or No | Explain your thinking |
| 1. $2(81x^{2}-72x+16)$
 |  |  |
| 1. $2(81x^{2}+4)(81x^{2}+4)$
 |  |  |
| 1. $2(81x^{2}-4)(81x^{2}+4)$
 |  |  |
| 1. $2(9x^{2}-4)(9x^{2}-4)$
 |  |  |
| 1. $2(9x^{2}+4)(9x^{2}+4)$
 |  |  |
| 1. $2(3x+2)^{2}(3x-2)^{2}$
 |  |  |

Source:

<https://assessmentresource.org/wp-content/uploads/2019/07/Integrated_Math_3_EOY_Item_Set.pdf>

Integrated Math III EOY, Spring 2015, Item M40370