Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_/\_\_\_/\_\_\_

1. Which expression is equivalent to 4*x*2 – 49?   
   1. (2*x* + 7)2
   2. (2*x* – 7)2
   3. (*x* + 7)(4*x* – 7)
   4. (2*x* + 7)(2*x* – 7)
2. Select all of the factors of the expression 5*x*2 – 405.
3. 5
4. 9
5. *x* + 9
6. *x* – 9
7. 5*x* – 9
8. Match each expression with an equivalent expression.

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| --- | --- | --- | --- |
|  | (x – 3)(x + 3) | (x – 3)(x – 3) | (x + 3)(x + 3) |
| *x*2 – 6*x* + 9 | 🞎 | 🞎 | 🞎 |
| x2 + 6x + 9 | 🞎 | 🞎 | 🞎 |
| x2 – 9 | 🞎 | 🞎 | 🞎 |

1. Use factoring to write an expression that is equivalent to 25*b*16 – 64*c*2.

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|  |

1. Write the expression 7*x*3 – 28*xy*2 as the product of 3 factors.

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1. Select all of the expressions that are NOT equivalent to .

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1. Niara is writing a computer program for three-dimensional graphics. Part of her program applies the expression. Which expression is equivalent to .

|  |  |
| --- | --- |
| A. |  |
| B. |  |
| C. |  |
| D. |  |