#### Study Island

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**6.** Simplify: (6*x*3 - 5*x*2 + 7) + (-3*x*3 - 3*x* - 4)

|  |  |
| --- | --- |
|  | **A.** 9*x*3 - 5*x*2 - 3*x* + 11 |

|  |  |
| --- | --- |
|  | **B.** 9*x*3 - 5*x*2 - 3*x* - 11 |

|  |  |
| --- | --- |
|  | **C.** 3*x*3 - 5*x*2 - 3*x* + 3 |

|  |  |
| --- | --- |
|  | **D.** 3*x*3 - 3*x* - 3 |

**7.** Simplify: (9*x*2 - 7*x* - 2) - (3*x*2 + 4*x* + 7)

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| --- | --- |
|  | **A.** 12*x*2 - 11*x* - 5 |

|  |  |
| --- | --- |
|  | **B.** 6*x*2 - 11*x* - 9 |

|  |  |
| --- | --- |
|  | **C.** 12*x*2 - 11*x* - 9 |

|  |  |
| --- | --- |
|  | **D.** 6*x*2 - 3*x* - 9 |

**8.** A polynomial expression is shown below.

(9*x*4 - 2*x*2) + (*x*2 - 4)(*qx*2 + 4)

The expression is simplified to 38*x*2 - 16.  
  
What is the value of q?

|  |  |
| --- | --- |
|  | **A.** -9 |

|  |  |
| --- | --- |
|  | **B.** 9 |

|  |  |
| --- | --- |
|  | **C.** -18 |

|  |  |
| --- | --- |
|  | **D.** 18 |

**9.** Simplify: (7x2 + 7x - 3)(4x - 9)

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| --- | --- |
|  | **A.** 28x3 + 91x2 + 51x - 27 |

|  |  |
| --- | --- |
|  | **B.** 28x3 - 35x2 - 75x - 27 |

|  |  |
| --- | --- |
|  | **C.** 28x3 - 91x2 + 51x + 27 |

|  |  |
| --- | --- |
|  | **D.** 28x3 - 35x2 - 75x + 27 |

**10.** Simplify: (6*x*2 + 5*x* - 5) + (4*x*2 + 7*x* - 2)

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|  | **A.** 10*x*2 + 12*x* - 7 |

|  |  |
| --- | --- |
|  | **B.** 2*x*2 + 12*x* - 3 |

|  |  |
| --- | --- |
|  | **C.** 10*x*2 + 2*x* + 7 |

|  |  |
| --- | --- |
|  | **D.** 10*x*2 + 2*x* - 7 |