#### Study Island

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Generation Date: **12/03/2012**   
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**6.** Factor the polynomial below.

*x*2 - 10*x* + 25

|  |  |
| --- | --- |
|  | **A.** 2*x*2 - 25 |

|  |  |
| --- | --- |
|  | **B.** *x*2 - 25 |

|  |  |
| --- | --- |
|  | **C.** (*x* - 10)2 |

|  |  |
| --- | --- |
|  | **D.** (*x* - 5)2 |

**7.** Factor the following polynomial completely.

0.4*x*2 - 4.4*x* + 7.2

|  |  |
| --- | --- |
|  | **A.** 0.4(*x* - 2)(*x* + 9) |

|  |  |
| --- | --- |
|  | **B.** 0.4(*x*2 - 11*x* + 18) |

|  |  |
| --- | --- |
|  | **C.** 0.4(*x* - 2)(*x* - 9) |

|  |  |
| --- | --- |
|  | **D.** -0.4(*x*2 + 11*x* + 18) |

**8.** Factor the following polynomial.

-18*x*2 - 42*x*

|  |  |
| --- | --- |
|  | **A.** -6*x*(3*x* - 7) |

|  |  |
| --- | --- |
|  | **B.** -6*x*(3*x* + 7) |

|  |  |
| --- | --- |
|  | **C.** 6*x*(3*x* - 7) |

|  |  |
| --- | --- |
|  | **D.** -6*x*(3*x* - 42) |

**9.** Factor the following polynomial completely.

-9*x*3 - 27*x*2 + 162*x*

|  |  |
| --- | --- |
|  | **A.** -9*x*(*x* + 6)(*x* - 3) |

|  |  |
| --- | --- |
|  | **B.** 9*x*(*x* + 6)(*x* - 3) |

|  |  |
| --- | --- |
|  | **C.** -9(*x*2 + 6)(*x* + 3) |

|  |  |
| --- | --- |
|  | **D.** -9(*x*3 + 3*x*2 - 18*x*) |

**10.** Factor the following expression completely.

4*x*2 - 144

|  |  |
| --- | --- |
|  | **A.** 4(*x* + 6)(*x* - 6) |

|  |  |
| --- | --- |
|  | **B.** (4*x* + 6)(*x* - 6) |

|  |  |
| --- | --- |
|  | **C.** 4(*x*2 - 36) |

|  |  |
| --- | --- |
|  | **D.** 4(*x* - 6)2 |