

10.2 Adding and Subtracting Polynomial Expressions

Name: _____

Date: _____

Period: _____

Add or Subtract each polynomial expression below. Put final answer in descending order and classify by terms and degrees.

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| <p>1. $(5x - 8) + (7x + 10)$</p> <p>Degree: _____ terms: _____</p> | <p>2. $(4m^2 + 9m) - (2m^2 + 6)$</p> <p>Degree: _____ terms: _____</p> |
| <p>3. $4a^3 - 12a^3 - 8a^2 - (8a^3 + 6a^2 + 10a)$</p> <p>Degree: _____ terms: _____</p> | <p>4. $-c^4 - 6c - 8c^2 + 12c + (11c^2 - 5c^4 - 6c - 3c^2)$</p> <p>Degree: _____ terms: _____</p> |
| <p>5. $(3x^2 + 10x - 1) - (5x^2 + 10x - 9)$</p> <p>Degree: _____ terms: _____</p> | <p>6. $(14p^4 + 7p^2) + (8p^3 + 7p^2 - p)$</p> <p>Degree: _____ terms: _____</p> |
| <p>7. $(-7m^3 - m^2 - m) - (10m^3 - m - 1)$</p> <p>Degree: _____ terms: _____</p> | <p>8. $30c^2 + c + 8c^3 - (4c^3 + 2c - 3c^2)$</p> <p>Degree: _____ terms: _____</p> |