

Student Name: _____

Score:

Arrange and subtract the polynomials

1. $-2p^2q + 3pq$, $-6pq - 3p$

2. $4xy + xy^2 + 3x$, $6xy - 3x^2y^2 + x$

3. $2r^3s + 3st + 11r^2 + 2t^3$, $5t^3 - 2st + 2r^2 + r^3s$

4. $7p^3 + 4p^2q - 2q$, $9p^2q - 6p^3$

5. $a^3 + 3a^2b - b^3$, $-2b^3 - 3ab^2 + 2a^3$

6. $3pq + 7qr + 3pr$, $-8pr + 2qr - 2pq$

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1. $-2p^2q + 3pq$, $-6pq - 3p$

Answers

$-2p^2q + 3pq$

(−) $-6pq - 3p$

$-2p^2q + 9pq + 3p$

2. $4xy + xy^2 + 3x$, $6xy - 3x^2y^2 + x$

$4xy + xy^2 + 3x$

(−) $6xy + x - 3x^2y^2$

$-2xy + xy^2 + 2x + 3x^2y^2$

3. $2r^3s + 3st + 11r^2 + 2t^3$, $5t^3 - 2st + 2r^2 + r^3s$

$2r^3s + 3st + 11r^2 + 2t^3$

(−) $r^3s - 2st + 2r^2 + 5t^3$

$r^3s + 5st + 9r^2 - 3t^3$

4. $7p^3 + 4p^2q - 2q$, $9p^2q - 6p^3$

$7p^3 + 4p^2q - 2q$

(−) $-6p^3 + 9p^2q$

$13p^3 - 5p^2q - 2q$

5. $a^3 + 3a^2b - b^3$, $-2b^3 - 3ab^2 + 2a^3$

$a^3 + 3a^2b - b^3$

(−) $2a^3 - 3ab^2 - 2b^3$

$-a^3 + 3a^2b + 3ab^2 + b^3$

6. $3pq + 7qr + 3pr$, $-8pr + 2qr - 2pq$

$3pq + 7qr + 3pr$

(−) $-2pq + 2qr - 8pr$ $5pq + 5qr + 11pr$