

ALGEBRA: Adding and Subtracting Expressions

 **8089** Watch video and complete examples

Lesson Notes and Examples:

Example 1

Add $2a + 7a^2 + 17$ to
 $3a^2 - 4a - 8$

Example 2

Subtract $5m^2 - 4mn + 7n^2$
from $7m^2 - 10n^2 + mn$

Example 3

Add these expressions:
 $3a^2 + 7a$; $5a^2 - 8a$ and
 $-7a^2 + 8a$

Calculate the following:

- 1) Add $13a + 7b$ to $5a - 3b$
- 2) Subtract $4b - 3$ from $-7 + 2b$

 Mark work and do corrections. [1-2]

- 3) Add $5p + 125$ to $-9x - 2p$
- 4) Subtract $-2a^2 + 3a$ from $a^2 + 5a$

 Mark work and do corrections. [3-4]

- 5) Add $5c^3 + 6c^2 - 2$ to $3c^3 + 2c^2 - 4$
- 6) Subtract $p^2 - 2p - 7$ from $-3p^2 - 4p + 10$

 Mark work and do corrections. [5-6]

- 7) Add these expressions: $-3t - t^2$; $+4t + 5t^2$ and $-t - 2t^2$
- 8) Subtract $m^2 - 2mn + 3n^2$ from $-2m^2 + 6mn - 6n^2$

 Mark work and do corrections. [7-8]

- 9) Add $3a + b - c$ to $2a - 6b + c$
- 10) Subtract $3x^2 + 7x - 1$ from $4x^2 - 7x - 1$

 Mark work and do corrections. [9-10]

- 11) Add $d^3 + 15d - 10d^2$ to $d - d^4 + d^2$
- 12) Subtract $3x^3 - 4x^2 + 6$ from $2x^3 - x^2 + x - 4$

 Mark work and do corrections. [11-12]