

Name: \_\_\_\_\_

# ADDING POLYNOMIAL EXPRESSIONS

Add the polynomial expressions

①  $3x^2 + 1 + 2x + 5x^2 + 9$

⑤  $3x^3 - 3 + (8x + 2x^3) + 5$

②  $(x^2 + 8x) + (x - x^2 + 1)$

⑥  $x^2 - xy + 2 + x^2 + 3xy + 13$

③  $(10 + x^4 - 3x^2) + (-2x^2 + 3x^4)$

⑦  $(4x^2 - 5x + 7) + (2x^2 - 6x + 8)$

④  $(3x^3 - 6 + 10) + (7x^3 + 4x^2)$

⑧  $14x + 3 + 6x - 11 + 3x^2$

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# ADDING POLYNOMIAL EXPRESSIONS

## Answers

①  $3x^2 + 1 + 2x + 5x^2 + 9$

⑤  $3x^3 - 3 + (8x + 2x^3) + 5$

$$\frac{8x^2 + 2x + 10}{(x^2 + 8x) + (x - x^2 + 1)}$$

$$\frac{5x^3 + 8x + 2}{x^2 - xy + 2 + x^2 + 3xy + 13}$$

$$\frac{9x + 1}{(10 + x^4 - 3x^2) + (-2x^2 + 3x^4)}$$

$$\frac{2x^2 + 2xy + 22}{(4x^2 - 5x + 7) + (2x^2 - 6x + 8)}$$

$$\frac{4x^4 - 5x^2 + 10}{(3x^3 - 6 + 10) + (7x^3 + 4x^2)}$$

$$\frac{6x^2 - 11x + 15}{14x + 3 + 6x - 11 + 3x^2}$$

$$\frac{10x^3 + 4x^2 + 4}{}$$

$$\frac{3x^2 + 20x - 8}{}$$