

Polynomials: Adding and Subtracting

Simplify

- 26.** A local deli kept track of the sandwiches it sold for three months. The polynomials below model the number of sandwiches sold, where s represents days.

$$\text{Ham and Cheese: } 4s^3 - 28s^2 + 33s + 250$$

$$\text{Pastrami: } -7.4s^2 + 32s + 180$$

Write a polynomial that models the total number of these sandwiches that were sold.

Simplify.

$$27. \quad \frac{11n - 4}{-(5n + 2)}$$

$$28. \quad \frac{7x^4 + 9}{-(8x^4 + 2)}$$

$$29. \quad \frac{3d^2 + 8d - 2}{-(2d^2 - 7d + 6)}$$

$$30. (28e^3 + 3e^2) + (19e^3 + e^2)$$

$$31. (-12h^4 + h) - (-6h^4 + 3h^2 - 4h)$$

- 32.** A small town wants to compare the number of students enrolled in public and private schools. The polynomials below show the enrollment for each:

$$\text{Public School: } -19c^2 + 980c + 48,989$$

$$\text{Private School: } 40c + 4046$$

Write a polynomial for how many more students are enrolled in public school than private school.