Polynomials and Factoring - Guided Practice

Which of the following is equivalent to $\frac{a^{12}b^2}{a^3b^6}$? Which expression is equivalent to $\frac{18c^8d^9}{9c^3d^6}$? Assume the denominator does not equal zero. \bigcirc A $\frac{a^9}{b^4}$ \bigcirc A $2c^5d^3$ ○ B 9c⁵d³ C 2c11d15 \bigcirc **c** $\frac{a^4}{b^3}$ D 9c¹¹d¹⁵ D a⁹b⁴ Simplify: Which polynomial is equivalent to $(18n^2 - 9n + 1) \div (3n - 1)$? Assume the divisor is not equal to zero. 5(-2n+4)-2(n+3)○ A 6n-1 ○ B 6n+1 ○ C 6n2-3 \bigcirc **D** $18n^2 - 3$ Simplify: Simplify: $(x-2x+1)(x^2+2x^2-x+3)$ (3x - 3)(2x + 1)

Which of the following binomials is a factor of $x^2 - x - 6$?

Which is a factor of $2n^2 - 5n - 42$?

- \bigcirc A x-1
- \bigcirc **B** x-2
- \bigcirc **c** x-3
- \bigcirc **D** x-6

- **A** 2*n* − 7
- B 2n−6
- C n-7
- D n-6

Identify each expression that is a factor of this polynomial.

$$4x^2 - 2x - 2$$

2x+1 2 x-1 2x-1 4x-1

Which binomial is a factor of $c^2 - 12c + 32$?

- \bigcirc A c-12
- B c-8
- C c-2
- \bigcirc **D** c-1

Factor completely:

$$-18a^2 - 12a - 2$$

Factor completely:

$$2x^2 - 200$$