

Factorizations Ex 7.1 Q5

Answer:

The numerical coefficients of the given monomials are 12, 6 and 2. The greatest common factor of 12, 6 and 2 is 2.

The common literals appearing in the three monomials are a and x.

The smallest power of a in the three monomials is 1.

The smallest power of x in the three monomials is 2.

The monomial of common literals with the smallest powers is ax2.

Hence, the greatest common factor is 2ax2.

Factorizations Ex 7.1 Q6

Answer

The numerical coefficients of the given monomials are 9, 15, 6 and 21. The greatest common factor of 9, 15, 6 and 21 is 3.

The common literal appearing in the three monomials is x.

The smallest power of x in the four monomials is 1.

The monomial of common literals with the smallest powers is x.

Hence, the greatest common factor is 3x.

Factorizations Ex 7.1 O7

Answer:

The numerical coefficients of the given monomials are 4, -12 and 18. The greatest common factor of 4, -12 and 18 is 2.

The common literals appearing in the three monomials are a and b.

The smallest power of a in the three monomials is 2.

The smallest power of b in the three monomials is 1.

The monomial of the common literals with the smallest powers is a²b.

Hence, the greatest common factor is 2a²b.

Factorizations Ex 7.1 Q8

Answer:

The numerical coefficients of the given monomials are 6, 9 and 3. The greatest common factor of 6, 9 and 3 is 3.

The common literals appearing in the three monomials are x and y.

The smallest power of x in the three monomials is 1.

The smallest power of y in the three monomials is 2.

The monomial of common literals with the smallest powers is xy².

Hence, the greatest common factor is 3xy².

Factorizations Ex 7.1 Q9

Answer:

The common literals appearing in the three monomials are a and b.

The smallest power of x in the two monomials is 2.

The smallest power of y in the two monomials is 2.

The monomial of common literals with the smallest powers is a²b².

Hence, the greatest common factor is a2b2.

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