GCF and LCM of Monomials

1) Find the greatest common factor of each pair of monomials.

ⓐ $m^2n^3p^4$, mn^2p^3

ⓑ $24x^7z^3$, $18x^4z^2$

ⓒ $25uv$, $55ux$

GCF =

GCF =

GCF =

ⓓ $22s^3t^4$, $11s^2t^3$

ⓔ $8xyz$, $15x^3y^3z^3$

ⓕ e^2f , $4ef^2$

GCF =

GCF =

GCF =

ⓖ c^2d^3 , cde

ⓗ 9 , $15r^2s^4$

ⓘ $7bc^3$, $14bc^4$

GCF =

GCF =

GCF =

2) Find the least common multiple of each pair of monomials.

ⓐ $42u^3vw$, $66u^2v^3w^3$

ⓑ $9x^3y^4$, $5x^3y$

ⓒ $65x^3y^3z^3$, $10x^3y^3$

LCM =

LCM =

LCM =

ⓓ $18x^4y$, $30x^4yz^3$

ⓔ $3m^3n^4p^4$, $5m^4n^2p^4$

ⓕ $5m^3nr^3$, $6m^3r^3$

LCM =

LCM =

LCM =

ⓖ $12c^2d$, $20c^2d^4$

ⓗ $14b^2c^2$, $42b^4c$

ⓘ $21st^4$, $3s^2t^2$

LCM =

LCM =

LCM =

GCF and LCM of Monomials

Answers

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1) Find the greatest common factor of each pair of monomials.

   ⓐ $m^2n^3p^4$, mn^2p^3 ⓑ $24x^7z^3$, $18x^4z^2$ ⓒ $25uv$, $55ux$

      GCF = mn^2p^3 GCF = $6x^4z^2$ GCF = $5u$

   ⓓ $22s^3t^4$, $11s^2t^3$ ⓔ $8xyz$, $15x^3y^3z^3$ ⓕ e^2f , $4ef^2$

      GCF = $11s^2t^3$ GCF = xyz GCF = ef

   ⓖ c^2d^3 , cde ⓗ 9 , $15r^2s^4$ ⓘ $7bc^3$, $14bc^4$

      GCF = cd GCF = 3 GCF = $7bc^3$

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2) Find the least common multiple of each pair of monomials.

   ⓐ $42u^3vw$, $66u^2v^3w^3$ ⓑ $9x^3y^4$, $5x^3y$ ⓒ $65x^3y^3z^3$, $10x^3y^3$

      LCM = $462u^3v^3w^3$ LCM = $45x^3y^4$ LCM = $130x^4y^3z^3$

   ⓓ $18x^4y$, $30x^4yz^3$ ⓔ $3m^3n^4p^4$, $5m^4n^2p^4$ ⓕ $5m^3nr^3$, $6m^3r^3$

      LCM = $90x^4y^4z^3$ LCM = $15m^4n^4p^4$ LCM = $30m^3nr^3$

   ⓖ $12c^2d$, $20c^2d^4$ ⓗ $14b^2c^2$, $42b^4c$ ⓘ $21st^4$, $3s^2t^2$

      LCM = $60c^2d^4$ LCM = $42b^4c^2$ LCM = $21s^2t^4$