



1. Find the H.C.F. of $38x^3y^2$ and $22x^3y^3$

- (i) $2x^4y^2$ (ii) $2x^6y^2$ (iii) $2x^3y^4$ (iv) $418x^3y^3$ (v) $2x^3y^2$

2. Find the H.C.F. of $4x^2y^2z^3$ and $14x^3y^3z$

- (i) $2x^2y^4z$ (ii) $28x^3y^3z^3$ (iii) $2x^2y^2z^3$ (iv) $2x^3y^2z$ (v) $2x^2y^2z$

3. Find the H.C.F. of $(x^2+12x+27)$ and (x^2-81)

- (i) $(x+3)$ (ii) $(x+9)$ (iii) $(x-9)$ (iv) $(2x+3)$ (v) $(2x+9)$

4. Evaluate : $985^2 - 15^2$

- (i) 97000 (ii) 970985 (iii) 970000 (iv) 970015 (v) 9700000

5. Which of the following gives the H.C.F. of two or more polynomials?

- (i) (Product of numerical coefficients) \times (Each common factor raised to the highest power)
(ii) (H.C.F. of numerical coefficients) \times (Each common factor raised to the highest power)
(iii) (Product of numerical coefficients) \times (Each common factor raised to the lowest power)
(iv) (H.C.F. of numerical coefficients) \times (Each common factor raised to the lowest power)

6. Find the value of $10^3 + 60^3 - 70^3$

- (i) 8000 (ii) (-126000) (iii) 1728000 (iv) (-1728000) (v) (-8000)

7. Find the value of $9.6^3 + 5.2^3 - 14.8^3$

- (i) 1124.864 (ii) 7077.888 (iii) -7077.888 (iv) -2216.448 (v) -1124.864

8. Which of the following is a factor of $26xy^3z^4$?

- (i) $2y^4$ (ii) $2y^3z^5$ (iii) $2xy^3z^5$ (iv) x^2y^3 (v) $2y^3$

9. Which of the following is not a factor of $7x^3y^5z$?

- (i) x^3y^5 (ii) x^2y^5z (iii) x^3y^4z (iv) x^4y^6z (v) x^3

10. Which of the following is a factor of $(7x^4+y^2z^5)$?

- (i) $7xz^3$ (ii) $7y^2$ (iii) no factors (iv) y^2z^5 (v) $7x^4$

11. Which of the following is an irreducible factor of $19xy^4z^4$?

- (i) y^2z (ii) xz^2 (iii) xy (iv) y (v) xy^2z^2

12. Which of the following is not an irreducible factor of $(x^2y + xy^2 + xy)$?

- (i) y (ii) x (iii) xy (iv) $(x+y+1)$

Assignment Key

1) (v)

2) (v)

3) (ii)

4) (iii)

5) (iv)

6) (ii)

7) (iv)

8) (v)

9) (iv)

10) (iii)

11) (iv)

12) (iii)