EduSahara™ Assignment

Name : H.C.F of Polynomials

Chapter : Factorisation

Grade : ICSE Grade VII

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1. Find the H.C.F. of $26x^2$ and $14x$

   (i) $2x^3$ (ii) $2x^2$ (iii) $2x$ (iv) $182x^2$ (v) $2x^4$

2. Find the H.C.F. of $170x^3y^3$ and $130xy^3$

   (i) $10x^2y^3$ (ii) $10xy^3$ (iii) $2210x^3y^3$ (iv) $10x^4y^3$ (v) $10xy^5$

3. Find the H.C.F. of $38xy^2z$ and $4x^3y^3z^3$

   (i) $2xy^4z$ (ii) $2xy^2z$ (iii) $2xy^2z^3$ (iv) $76x^3y^3z^3$ (v) $2x^2y^2z$

4. Find the H.C.F. of $(x^2+3x-40)$ and $(x^2+2x-35)$

   (i) $(x-5)$ (ii) $(x+8)$ (iii) $(2x+8)$ (iv) $(x+7)$ (v) $(2x-5)$

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

   (i) (Product of numerical coefficients) × (Each common factor raised to the lowest power)

   (ii) (H.C.F. of numerical coefficients) × (Each common factor raised to the highest power)

   (iii) (Product of numerical coefficients) × (Each common factor raised to the highest power)

   (iv) (H.C.F. of numerical coefficients) × (Each common factor raised to the lowest power)

6. Which of the following is a factor of $44x^2y^5z^5$?

   (i) $22x^2y^3z^6$ (ii) $22x^2y^6$ (iii) $22x^2y^3$ (iv) x^3y^3

7. Which of the following is not a factor of $30x^3y^2z^3$?

   (i) $30x^2y^2z^3$ (ii) $30x^3y^2z^2$ (iii) $30x^4y^3z^4$ (iv) $30x^3yz^3$ (v) $30xyz^3$

8. Which of the following is a factor of $(7x+y^3z^5)$?

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

9. Which of the following is an irreducible factor of $30x^2y^3z$?

   (i) $x^2y^3z^2$ (ii) y^3z (iii) z (iv) xz^2 (v) x^2y

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

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

11. Find the H.C.F. of $70x$ and $130x$

(i) $10x^3$ (ii) $10x$ (iii) $10x^4$ (iv) $910x$ (v) $10x^2$

12. Find the H.C.F. of $30x^3y$ and $20xy$

(i) $10xy$ (ii) $10x^4y$ (iii) $60x^3y$ (iv) $10xy^3$ (v) $10x^2y$

13. Find the H.C.F. of $132x^2yz^3$ and $84x^3y^3z$

(i) $12x^3yz$ (ii) $12x^2yz^3$ (iii) $924x^3y^3z^3$ (iv) $12x^2y^3z$ (v) $12x^2yz$

14. Find the H.C.F. of (x^2-36) and (x^2+5x-6)

(i) $(x-1)$ (ii) $(2x-6)$ (iii) $(2x+6)$ (iv) $(x+6)$ (v) $(x-6)$

15. Which of the following is a factor of $28x^4y^3z^2$?

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

16. Which of the following is not a factor of $29x^2yz^3$?

(i) xyz^3 (ii) x^2z^3 (iii) x^2yz^2 (iv) $x^3y^2z^3$ (v) x^2yz

17. Which of the following is a factor of $(11x^5+y^5z^4)$?

(i) no factors (ii) $11y^5$ (iii) $11x^5$ (iv) $11x^2z^3$ (v) y^5z^4

18. Which of the following is an irreducible factor of $13x^4y^3z^3$?

(i) x (ii) xz^2 (iii) $x^3y^3z^2$ (iv) y^3z (v) x^3y

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

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

Assignment Key

1) (iii)	2) (ii)	3) (ii)	4) (i)	5) (iv)	6) (iii)
7) (iii)	8) (iv)	9) (iii)	10) (i)	11) (ii)	12) (i)
13) (v)	14) (iv)	15) (iii)	16) (iv)	17) (i)	18) (i)
19) (iii)					

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