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Home Assignment 4/10/2021

{ Exercise - 19(c) Q 2, 3, 7 }
{ Exercise - 19(d) Q 2, 3 }

19(c)

2. i) $4x \cdot x \cdot 6x \cdot x \cdot 2 = 48x^2$

ii) $3ab \cdot 6ax = 18a^2x$

iii) $x \cdot 2x^2 \cdot 3x^3 = 6x^6$

iv) $5 \cdot 5a^3 = 25a^3$

v) $6 \cdot 6x^2 \cdot 6x^2y^2 = 216x^4y^2$

vi) $-8x \cdot -3x = 24x^2$

vii) $-5 \cdot -3x \cdot 5x^2 = 17x^3$

viii) $2 \cdot -4xy^2 \cdot 3x^3y^2 = -96x^4y^4$

ix) $-4x \cdot 5xy \cdot 3x = -60x^2y^2$

x) $5x \cdot 2xy \cdot -7y^3 \cdot 2x^3y^2$

$= -140x^6y^6$

3. ii) $15x^4$

ii) $35a^9$

iii) $18a^2b^4c^4$

iv) $5a^5b^6$

v) $10x^5y^7$

vi) $a^2b^2c^2d$

~~7. i) $x^2 \times x^2 = x^4$~~

~~ii) $5x^2$~~

~~7. $x+2 \times x+10$~~

~~i) $= x^2 + 2x + 20$~~

~~ii) $x+5 \times x-3$~~

~~$= x^2 + 5x - 15$~~

~~iii) $x-5 \times x+3$~~

~~$= -x^2 - 5x + 15$~~

~~iv) $x-5 \times x-3$~~

7.

ii) $(x+2)(x+10)$

$= x^2 + 10x + 2x + 20$

$= x^2 + 12x + 20$

iii) $(x+5)(x-3)$

$= x^2 - 3x + 5x - 15$

$= x^2 + 2x - 15$

iv) $(x-5)(x+3)$

$= x^2 + 3x - 5x - 15$

$= x^2 - 2x - 15$

v) $(x-5)(x-3)$

$= x^2 - 3x - 5x + 15$

$= x^2 - 8x + 15$

i) $(2x+y)(x+3y)$

$= 2x^2 + 6xy + yx + 3y^2$

$= 2x^2 + 7xy + 3y^2$

ii) $(3x-5y)(x+6y)$

$= 3x^2 + 18xy - 5yx - 30y^2$

$= 3x^2 + 13xy - 30y^2$

iii) $(x+9y)(x-5y)$

$= x^2 - 5yx + 9yx - 45y^2$

$= x^2 + 4xy - 45y^2$

iv) $(2x+5y)(2x+5y)$

$= 4x^2 + 10xy + 10yx + 25y^2$

$= 4x^2 + 20xy + 25y^2$

Ex-19 CD)

2.

$$\text{i) } 2x^5 \div x^2 \\ = 2x^3$$

$$\text{ii) } 6a^8 \div 3a^3 \\ = 2a^5$$

$$\text{iii) } 20xy \div -5xy \\ = -4$$

$$\text{iv) } -24a^2b^2c^2 \div 6ab \\ = -4abc^2$$

$$\text{v) } -5x^2y \div xy^2 \\ = -5xy$$

$$\text{vi) } 40p^3q^4r^5 \div 10p^3q \\ = 4q^3r^5$$

$$\text{vii) } -64x^4y^3z \div 4x^3y^2z \\ = -16xyz$$

$$\text{viii) } 35xy^5 \div 7x^2y^4 \\ = 5xy$$

3. i) $-\frac{8m}{4}$ by $2m$

$$= -\frac{8m}{8}$$

ii) $-15p^6q^8$ by $-5p^6q^7$

$$\frac{-15p^6q^8}{-5p^6q^7} = 3q$$

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$$\text{iii) } -21m^5n^7 \text{ by } 14m^2n^2$$

$$\frac{-21m^5n^7}{14m^2n^2} = \frac{-21m^3n^5}{14}$$

$$\text{iv) } \frac{36a^4x^5y^6}{4x^2a^3y^2} = 9ax^3y^4$$

$$\text{v) } \frac{20x^3a^6}{5xy} = 4x^2a^6y$$

$$\text{vi) } \frac{28a^2b^3}{c^2} \div 4abc$$

$$\frac{28a^2b^3}{c^2} \times \frac{1}{4abc}$$

$$= \frac{7ab^2}{c^3}$$

$$\text{vii) } \frac{2a^2}{9b^2} \div \frac{3b}{2a}$$

$$= \frac{2a^2}{9b^2} \times \frac{2a}{3b}$$

$$= \frac{4a^3}{27b^3}$$

$$\text{viii) } \frac{-5.5x^2}{y} \div \frac{10x}{y}$$

$$= \frac{-5.5x^2}{10y} \div \frac{10x}{y}$$

$$= \frac{-5.5x^2}{10y} \times \frac{y}{10x}$$

$$= \frac{-5.5x}{10}$$

$$\text{ix) } \frac{64x^2y^3}{z^2} \div \frac{8xy}{z}$$

$$= \frac{64x^2y^2}{z^2} \times \frac{z}{8xy}$$

$$= \frac{8xy}{z}$$