

EXERCISE 8.2

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Divide:

1. $6x^3y^2z^2$ by $3x^2yz$

Solution:

We have, $6x^{3}y^{2}z^{2} / 3x^{2}yz$ By using the formula $a^{n} / a^{m} = a^{n-m}$ $6/3 x^{3-2} y^{2-1} z^{2-1}$ 2xyz

2. $15m^2n^3$ by $5m^2n^2$

Solution:

We have, $15m^2n^3 / 5m^2n^2$ By using the formula $a^n / a^m = a^{n-m}$ $15/5 m^{2-2} n^{3-2}$ 3n

3. $24a^3b^3$ by -8ab

Solution:

We have, $24a^3b^3 / -8ab$ By using the formula $a^n / a^m = a^{n-m}$ $24/-8 \ a^{3-1} \ b^{3-1}$ $-3a^2b^2$

 $4. -21abc^2 by 7abc$

Solution:

We have, $-21abc^2 / 7abc$ By using the formula $a^n / a^m = a^{n-m}$ $-21/7 \ a^{1-1} \ b^{1-1} \ c^{2-1}$ -3c

 $5.72xyz^2 by -9xz$

Solution:

We have, $72xyz^2 / -9xz$



By using the formula $a^n / a^m = a^{n-m}$ 72/-9 x^{1-1} y z^{2-1} -8yz

6. $-72a^4b^5c^8$ by $-9a^2b^2c^3$

Solution:

We have, $-72a^4b^5c^8 / -9a^2b^2c^3$ By using the formula $a^n / a^m = a^{n-m}$ $-72/-9 \ a^{4-2} \ b^{5-2} \ c^{8-3}$ $8a^2b^3c^5$

Simplify:

7. $16m^3y^2 / 4m^2y$

Solution:

We have, $16m^3y^2 / 4m^2y$ By using the formula $a^n / a^m = a^{n-m}$ $16/4 m^{3-2} y^{2-1}$ 4my

8. $32m^2n^3p^2 / 4mnp$

Solution:

We have, $32m^2n^3p^2 / 4mnp$ By using the formula $a^n / a^m = a^{n-m}$ $32/4 m^{2-1} n^{3-1} p^{2-1}$ $8mn^2p$