

### Factorizations Ex 7.2 Q14

#### Answer:

The greatest common factor of the terms 16m and  $4m^2$  of the expression  $16m-4m^2$  is 4m.

Also, we can write  $16m = 4m \times 4$  and  $4m^2 = 4m \times m$ .

$$\therefore 16m - 4m^2 = 4m \times 4 - 4m \times m$$
$$= 4m(4-m)$$

# Factorizations Ex 7.2 Q15

#### Answer:

The greatest common factor of the terms  $-4a^2$ , 4ab and -4ca of the expression  $-4a^2 + 4ab - 4ca$  is -4a.

Also, we can write 
$$-4a^2 = -4a \times a$$
,  $4ab = -4a \times (-b)$  and  $4ca = -4a \times c$ .

$$\therefore -4a^2 + 4ab - 4ca = -4a \times a + (-4a) \times (-b) - 4a \times c$$
$$= -4a(a-b+c)$$

### Factorizations Ex 7.2 Q16

#### Answer:

The greatest common factor of the terms  $x^2yz$ ,  $xy^2z$  and  $xyz^2$  of the expression  $x^2yz + xy^2z + xyz^2$  is xyz.

Also, we can write  $x^2yz = xyz \times x$ ,  $xy^2z = xyz \times y$  and  $xyz^2 = xyz \times z$ .

$$\therefore x^2yz + xy^2z + xyz^2 = xyz \times x + xyz \times y + xyz \times z$$
$$= xyz(x+y+z)$$

# Factorizations Ex 7.2 Q17

## Answer:

The greatest common factor of the terms  $ax^2y$ ,  $bxy^2$  and cxyz of the expression  $ax^2y + bxy^2 + cxyz$  is xy.

Also, we can write  $ax^2y = xy \times ax$ ,  $bxy^2 = xy \times by$  and  $cxyz = xy \times cz$ .

$$\therefore ax^2y + bxy^2 + cxyz = xy \times ax + xy \times by + xy \times cz$$
$$= xy(ax + by + cz)$$

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