

$$2 \text{ (i)} \quad 7x - 42 \\ = 7(x - 6)$$

$$\text{(ii)} \quad 6p - 12q \\ = 6(p - 2q) \\ = 2 \times 3(p - 2q)$$

$$\text{(iii)} \quad 7a^2 + 14a \\ = 7a(a + 2)$$

$$\text{(iv)} \quad -16z + 20z^3 \\ = 4z(-4 + 5z^2) \\ = 2^2 z(-4 + 5z^2)$$

$$\text{(v)} \quad 20l^2m + 30alm \\ = 10lm(2l + 3a) \\ = 2 \times 5lm(2l + 3a)$$

$$\text{(vi)} \quad 5x^2y - 15xy^2 \\ = 5xy(x - 3y)$$

$$\text{(vii)} \quad 10a^2 - 15b^2 + 20c^2 \\ 5(2a^2 - 3b^2 + 4c^2)$$

$$2 \text{ (viii)} \quad -4a^2 + 4ab - 4ca \\ = 4a(-a + b - c) \\ = 2 \times 2a(-a + b - c)$$

$$2 \text{ (ix)} \quad x^2yz + xy^2z + xyz^2 \\ = xyz(x + y + z)$$

$$2 \text{ (x)} \quad ax^2y + bxy^2 + cxyz \\ = xy(ax + by + cz)$$