

$$1) x^2y + x^2z = x^2x(y+z)$$

$$2) 2a^2x + 6ax^2 = 2ax(a+3x)$$

$$3) 8am^2 - 12mn = 4mx(2am - 3n)$$

$$4) 9a^3x^2 - 18ax^3 = 9ax^2(a^2 - 2x)$$

$$5) 15c^3d^2 + 60c^2d^3 \div 15c^2d^2 \times (c+4d)$$

$$6) 35m^2n^3 - 70m^3 \div 35m^2 \times (n^3 - 2m)$$

$$7) abc + abc^2 \div abc \times (1+c)$$

$$8) 24a^2xy^2 - 36x^2y^4 \div 12xy^2 \times (2a^2 - 3x)$$

$$9) a^3 + a^2 + a = ax(a^2 + a + 1)$$

$$10) 4x^2 - 8x + 2 = 2(2x^2 - 4x + 1)$$

$$11) 15y^3 + 20y^2 - 5y = 5y^2 x(y + 1)$$

$$12) a^3 - a^2x + ax^3 = ax(a^2 - ax + x^2)$$

$$13) 2a^2x + 2ax^2 - 3ax = ax(2a + 2x - 3)$$

$$14) x^3 + x^5 - x^7 = x^3(1 + x^2 - x^4)$$