

$$a + b(x-1) + c(x-1)^2 = \frac{x^3}{4} + x^2 - \frac{5x}{4} + \frac{1}{2}$$

$$(1) \quad b + 2cx - 2c = \frac{3x^2}{4} + 2x - \frac{5}{4}$$

$$(2) \quad 2c = \frac{3}{2}x + 2$$

$$e + f(x-2) + g(x-2)^2 + \frac{1}{4}(x-2)^2(x-3)$$

$$(1) \quad f + 2gx - 4g + \frac{x^3}{4} - \frac{7}{4}x^2 + 4x - 3$$

$$\frac{3x^2}{4} - \frac{7}{2}x + 4$$

$$(2) \quad 2g + \frac{3}{2}x - \frac{7}{2}$$