

다항식 $f(x) = x^3 - 3x^2 - 4x + 12$ 을 인수분해하시오.

$$\begin{aligned} f(x) &= x^3 - 3x^2 - 4x + 12 \\ &= (x^3 - 3x^2) + (-4x + 12) \\ &= x^2(x-3) - 4(x-3) \\ &= (x-3)(x^2 - 4) \\ &= (x-3)(x+2)(x-2) \end{aligned}$$