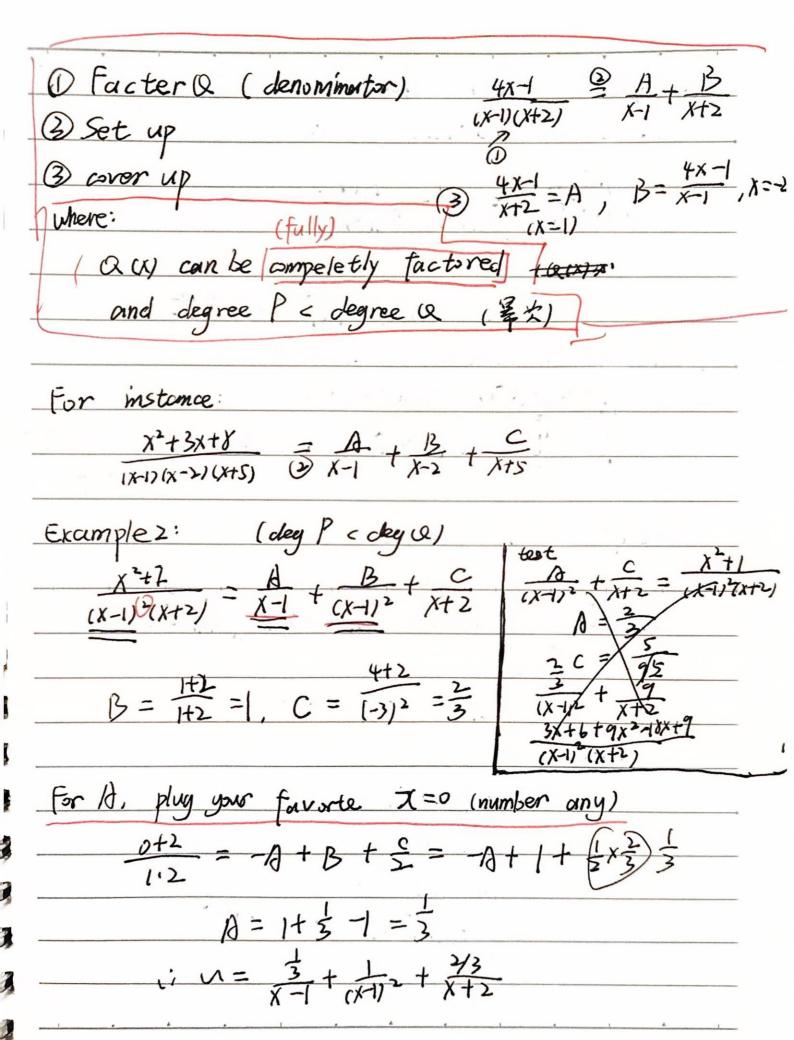
LEC 29, 2024.123
antinue to method of integration
PLN/ Q(X) rational function
USE PARTIAL FRACTIONS (新新新) EXI. (2015)
Ex1. $S(x-1+3+2) =  n x+1  +  x+2  + C$
$\frac{1}{x+1} + \frac{1}{x+2} = \frac{4x-1}{(x+1)(x+2)} = \frac{4x-1}{x^2+x-2}$ Detect "easy"   part — cover up method
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
3 Solve for A&B
$\frac{4x-1}{x+2} = A + \frac{B}{(x+2)} (x-1)$
now: plug in $x=1=1$ $+2=A=1$
$(5) \frac{4x-1}{x-1} = A \cdot (x+2) + B$
now: plug in x=-2:13= -3 =3
now: plug in $x=-2$ : $B = -3 = 3$

...



Date.

