## 3.4 Partial Fractions Cont.

Monday, October 24, 2022

$$\frac{O(ictives:}{1 + cutive at the models of portial frequence,
3 topostal and numportal linear factors.
$$\int \frac{Sy-4}{Y-y-2} dx = \int \left(\frac{z}{x-z} + \frac{z}{x+1}\right) dx$$

$$\int \frac{Sy-4}{Y-y-2} dx = \int \left(\frac{z}{x-z} + \frac{z}{y+1}\right) dx$$

$$\lim_{War} \frac{1}{y+y-2} dx = \int \left(\frac{z}{x+z} + \frac{z}{y+1}\right) dx$$

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$$\lim_{War} \frac{1}{y+y-2} dx = \int \left(\frac{S}{x+z} - \frac{1}{x+1}\right) dx$$

$$\lim_{War} \frac{1}{y+y-2} dx = \int \left(\frac{S}{x+z} - \frac{1}{y+1}\right) dx$$

$$\lim_{War} \frac{1}{y+y-2} dx = \int \left(\frac{S}{x+z} - \frac{1}{y+1}\right) dx$$

$$\lim_{War} \frac{1}{y+y-2} dx = \int \frac{1}{y+z} dx - \int \frac{1}{y+z} dx$$

$$\lim_{War} \frac{1}{y+y-1} dx$$

$$\lim_{War} \frac{1}{y+z} dx$$

$$\lim_{War$$$$

The property:  

$$\begin{aligned}
& for example : \\
& for exam$$

$$\frac{y-z}{(z_{k}-1)^{2}(z_{k})} = \frac{A}{2x-1} + \frac{B}{(2x-1)^{2}} + \frac{C}{(x-1)}$$
(aways decomparise:  
 $y-z = A(2x-1)(y-1) + B(x-1) + C(2x-1)^{2}$ 

$$\frac{y-z}{(x-2)} = (2A + 4C) x^{2} + (-3A + B - 4C) x + (A - 13 + C)$$

$$O = 2A + 4C - Y = A^{2}B + B^{2} + 4C = X = B^{2}B + B^{2} + 4C = X = B^{2}B + B^{2} + 4C = X^{2}B + B^{2} + 4C = X^{2}B + B^{2} + 4C = X^{2}B + B^{2} + C = X^{2}B + B^{2} + B^{2} + C = X^{2}B + B^{2} + C = X^{2}B + B^{2} + C = X^{2}B + B^{2} +$$