aniz 42 | A PERIOD | 2014-2015 | SHURLEVEA. (x-5)(x+1) x+1 x-5 (x-5)(x+1) x+1 x-5  $x-1=(A+B) \times +B-5A$   $= \begin{cases} A+B=1 \\ B-5A=-1 \end{cases}$ 6A = 2 $\frac{1}{3}\ln|x+1| + \frac{2}{3}\ln|x-5| = \frac{1}{3}\left(\ln 5 - \ln 1\right) + \frac{2}{3}\left(\ln 1 - \ln 5\right)$  $e^{x+e^{x}} dx = \left(e^{x} \cdot e^{e^{x}} dx\right)$ e du = e + c = e + C  $\frac{\pi}{t \cos^2 t} dt = t \left[ \frac{1}{2} t + \frac{1}{4} \sin 2t \right] - \int_{2}^{1} t + \frac{1}{4} \sin 2t dt$ 0 = t 0' = 1  $= \pi(\frac{\pi}{2} + \frac{1}{4}0) - (\frac{t^2}{4} - \frac{1}{8}\cos 2t)$   $V' = \cos^2 t$   $V = \frac{1}{2}t + \frac{1}{4}\sin 2t$  $= \frac{\mathbb{T}^2}{2} - \left[ \left( \frac{\mathbb{T}^2}{4} - \frac{1}{8} \right) - \left( \frac{9}{4} - \frac{1}{8} \right) \right]$ 652t = 652t +1  $= 2\pi^2 - \pi^2 = \pi^2$ .  $\frac{A}{x-2} + \frac{Bx+C}{x^2+4} = \frac{(A+B)x^2-(2B-C)x+4A-2C}{Q(x)} = 0 \times x^2 + 0 \times x + 1$ A+B=0 (=>  $\begin{cases} 2A-C=1/2 \\ B=-A \end{cases}$  (=>  $\begin{cases} C=2A-1/2=> A=1/8 \\ C=-2A \end{cases}$  B=-1/8 C=2B=-2A C-2B = 0  $\frac{1/8}{x-2} + \frac{-1/8}{8} \times -\frac{1/4}{4} dx = \frac{1}{8} \ln |x-2| - \frac{1}{18} \left( \frac{2x}{x^2+4} dx - \frac{1}{4} \right) \frac{1}{x^2+4} dx$ = 1 |n |x-2 | - 1 |n | x2+4 | - 1 arctan (x) + C www.PrintablePaper.net

