

Oscar Renato Garcia Resendiz 191008 7:A

$$\textcircled{3} \int (x-1) \operatorname{sen}(\pi x) dx =$$

$$(x-1) \left(-\cos \frac{(\pi x)}{\pi} \right) - \int \left(-\cos \frac{(\pi x)}{\pi} \right) dx$$

$$(x-1) \left(-\cos \frac{(\pi x)}{\pi} \right) + \frac{1}{\pi} \int \cos(\pi x) dx$$

$$(x-1) \left(-\cos \frac{(\pi x)}{\pi} \right) + \frac{1}{\pi} \frac{\operatorname{sen}(\pi x)}{\pi}$$

$$(x-1) \left(-\cos \frac{(\pi x)}{\pi} \right) + \frac{\operatorname{sen}(\pi x)}{\pi} + C //$$

$$u = (x-1)$$

$$du = 1$$

$$dv = \operatorname{sen}(\pi x)$$

$$v = -\frac{1}{\pi} \cos(\pi x)$$