

EX 3

$$= \frac{11s-1}{s^2-1} = \frac{11s-1}{(s+1)(s-1)}$$

$$= \frac{A}{s+1} + \frac{B}{s-1}$$

$$A=5, B=6$$

$$A = \frac{(11s-1)(s+1)}{(s+1)(s-1)} \Big|_{s=-1} = \frac{-11-1}{-2} = \frac{-12}{-2} = 6 \checkmark$$

$$B = \frac{(11s-1)(s+1)}{(s+1)(s+1)} \Big|_{s=1} = \frac{11-1}{1+1} = \frac{10}{2} = 5$$