Q5) 
$$S(t) = \ln \left[ \frac{t-1}{3t+5} \right]$$
 Find  $S'(s)$ 

$$f'(t) = \frac{1}{t-1} - \frac{3}{3t+5}$$

$$f'(5) = \frac{1}{4} - \frac{3}{20} \quad \therefore f'(5) = \frac{2}{20}$$

$$= \frac{5}{20} - \frac{3}{20} \qquad = \frac{1}{10}$$

$$\frac{\langle \mathcal{Q} | \mathcal{B} | \mathcal{A} \rangle}{\mathcal{F}(x)} = \frac{1}{|x|} \qquad \text{Find } \mathcal{F}'(x) \\
= \frac{1}{|x|} \cdot \frac{1}{|x|} \\
= \frac{1}{|x|} \cdot \frac{1}{|x|}$$