7) 
$$F(s) = \frac{25^3}{5^2 - 4} = \frac{25^3}{(5^2 + 2)(5^2 - 2)}$$
  
poles 4+  $2 = \pm \sqrt{2}$ ,  $\pm \sqrt{2}$ i

$$= \frac{1}{2} \frac{P(z)}{P(z)} = \frac{1}{2} \frac{$$

$$f(t) = \frac{1}{2} \left[ e^{\sqrt{2}t} + e^{-\sqrt{2}t} + e^{\sqrt{2}t} i + e^{-\sqrt{2}t} \right]$$

$$= \frac{1}{2} \left( e^{\sqrt{2}t} + e^{-\sqrt{2}t} \right) + \frac{1}{2} \left( e^{\sqrt{2}t} i + e^{-\sqrt{2}t} i \right)$$

$$= (05h(\sqrt{2}t) + cos(\sqrt{2}t))$$