

7.3 11 (a) (b)

$\sinh(2x)$

$$a. = \sinh(x+x) = \sinh x \cosh x + \cosh x \sinh x$$

$$= 2 \sinh x \cosh x$$

$\cosh(x+x)$

$$b. = \cosh(x+x) = \cosh x \cosh x + \sinh x \sinh x$$

$$= \cosh^2 x + \sinh^2 x$$