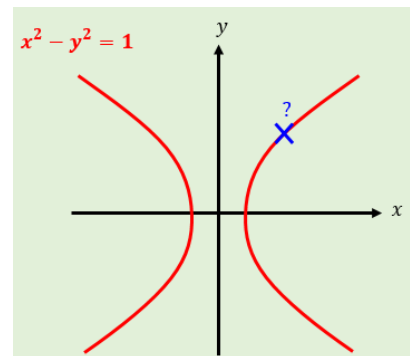
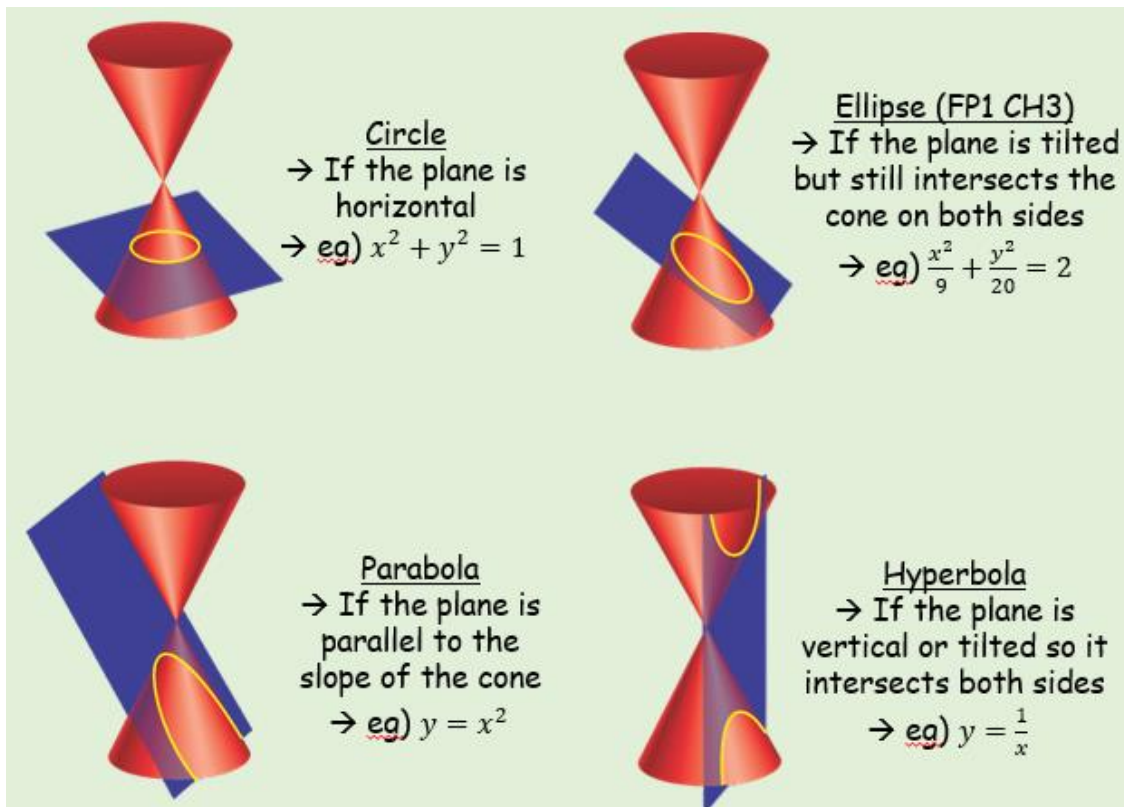


6A Introduction to Hyperbolic Functions



$\sinh x$

$\operatorname{cosech} x$

$\cosh x$

$\operatorname{sech} x$

$\tanh x$

$\operatorname{coth} x$

1. Find, to 2 decimal places, the value of:

a) $\sinh 3$

b) $\cosh 1$

c) $\tanh 0.8$

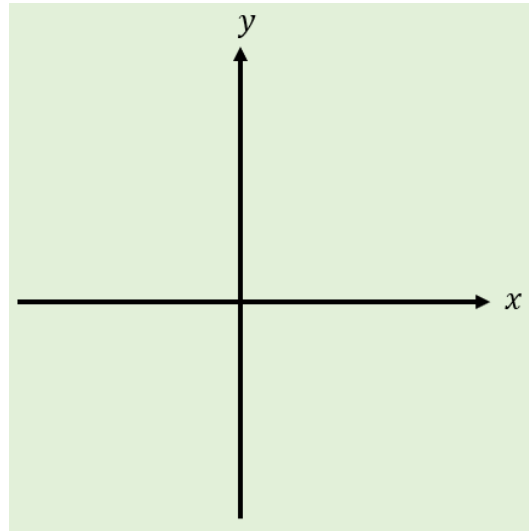
2. Find the exact value of:

$$\tanh(\ln 4)$$

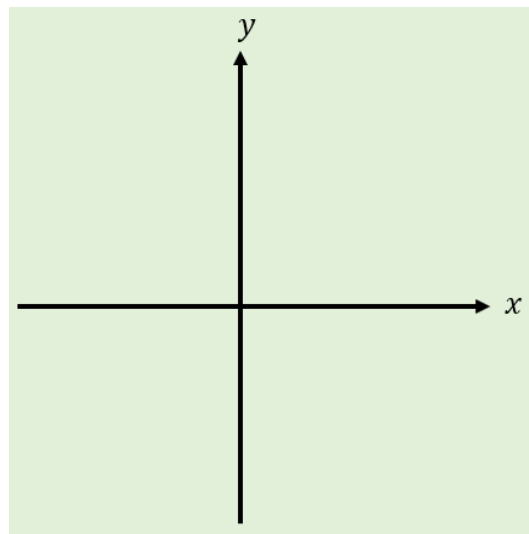
3. Find the value of x for which $\sinh x = 5$. Give your answer to 2 decimal places.

4. Sketch hyperbolic function

a) $y = \sinh x$



b) $y = \cosh x$



c) $y = \tanh x$

