

1-28-14  
4<sup>th</sup> Trig

Horizontal  $y = 0$

Vertical  $x = 6$

Slant  $y = x + 1$

Hole at  $x = 3$

Practice

①  $y = \frac{x^3 - 2x + 1}{x - 8}$

Horizontal: Bot  None

Vertical:  $x = 8$

Determine all

①  $y = \frac{x^2 + 6x - 1}{x + 5}$

$$\begin{array}{r} x+5 \overline{) x^2+6x-1} \\ \underline{-(x^2+5x)} \phantom{-1} \\ x-1 \phantom{-1} \\ \underline{-(x+5)} \\ \phantom{x-1} \phantom{-1} \phantom{-1} \\ \phantom{x-1} \phantom{-1} \phantom{-1} \phantom{-1} \end{array}$$

Slant:  $y = x + 1$

Not a hole

Horizontal: Bot  None

Vertical:  $x = -5$