Quiz 19

1. $y = \frac{3x^2+9x}{x^2-9} = \frac{3x(x+3)}{(x-3)(x+3)} = \frac{3x}{x-3}, \quad x \neq -3$

HA $y=3$, VA $x=3$, hole $x=-3$

2. $y = \frac{3x+6}{x^2-6x+8} = \frac{3(x+2)}{(x-2)(x-4)}$

HA $y=0$, VA $x=2,4$, hole none

3. $y = \frac{5x^3-5x}{x^2-4x} = \frac{5x(x-1)(x+1)}{x(x-4)} =$

$\frac{5(x-1)(x+1)}{x-4}, \quad x \neq 0$

HA none VA $x=4$, hole $x=0$