5. [6 points] Let

$$
F(x)=\frac{\left(x^{2}-4 x+4\right) x}{x(x-100)(10 x-2)}
$$

i) Does the graph of $y=F(x)$ have any vertical asymptotes? If so, write their equations, otherwise write None.

Solution: Equations of vertical asymptotes: $x=100, x=0.2$
ii) Does the graph of $y=F(x)$ have any horizontal asymptotes? If so, write their equations, otherwise write None

Solution: $\quad y=\frac{1}{10}$
iii) Find the zeros of the function $F(x)$. If the function does not have zeros, write None.

Solution: $\quad x=2$

