

5. [6 points] Let

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

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

Vertical asymptote(s): \_\_\_\_\_

- ii) Does the graph of  $y = F(x)$  have any horizontal asymptotes? If so, write their equations, otherwise write None

Horizontal asymptote(s): \_\_\_\_\_

- iii) Find the zeros of the function  $F(x)$ . If the function does not have zeros, write None.

Zeros: \_\_\_\_\_