Week 4 QUIZ MAT2601

Question 1

absolute minimum : (5, -95)

absolute maximum : (-1, 13)

Question 2.

$ 1360

Question 3.

X = 150.

Minimum average cost per hundred units: $ 972

Question 4

(a) 6 hr.

(b) 414

Question 5

5 weeks

Question 6

side parallel to the river: 160

each of the other sides: 320

Question 7

36,000

Question 8

(a) Vertical asymptotes: $x = 4$

(b) 1

(c) 1

(d) horizontal asymptotes: $y = 1$

Question 9

horizontal asymptote: $y = x$.

Vertical asymptote: $x = 0$.

Graph: 1st graph.

Question 10

horizontal asymptote: $y = x$.

vertical asymptote: $x = 4$

Critical points: $(x, y) = (3, 0)$ - smaller x-value.
$= (5, 8)$ - larger x-value.

Relative maximum: ~~(5, 8)~~ (3, 0)
Relative minimum: (5, 8)
Points of Inflection: ONE
Sketch: 1st graph.