QUIZ # 8 (10 pts)

Name:

NO CALCULATORS ALLOWED. COMPLETE EXPLANATIONS REQUIRED

**Problem 1.** 4pts) Find, with justification, the largest possible area of a rectangle with perimeter 36 cm.

**Problem 2.** (6pts) Draw the graph of the function. Indicate all asymptotes, critical and inflection points (both coordinates).

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f(x) = x^2 \cdot e^x
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