Question 1

a)

, where

**Chain rule**

c)

**Chain rule**

**Quotient rule**

Question 2

Question 3

a)

**L'Hôpital's Rule**

*chain rule*

*chain rule*

b)

**L'Hôpital's Rule**

c)

**L'Hôpital's Rule**

*product rule*

**L'Hôpital's Rule**

d)

*product rule*

**L'Hôpital's Rule**

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Question 4

Reference Triangle:

*pythagoras theorem*

Unit Circle: