Worksheet

Question 1

1. Differentiate.

*You do not need to simplify your answer.*

1. Find  for the function defined as: , .

*You do not need to simplify your answer.*

c). Find  given that*.*

*You do not need to simplify your answer.*

d). Differentiate.

*You do not need to simplify your answer.*

e). Differentiate  *y* = tan**(*x*2 + 2)**

**You do not need to simplify your answer.**

f). Differentiate *y =* 

**You do not need to simplify your answer**

g). Differentiate *y* =

**You do not need to simplify your answer.**

h). Differentiate the function .

i). Prove the rule for differentiating quotients:

If  then 

j)Differentiate  *y* = sin**(*x*3 +** 1)

k). Differentiate *y =* 

l). Differentiate .

m). The parametic curve given by  and  forms a celtic knot design. Find dy/dx

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