Homework assignment 1

Calculus 1

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1 ) Find the domain:

A ) B ) C ) D )

…………………………………………………………………………………………………………………………………………………….

2 ) Find the range:

A ) B ) C )

……………………………………………………………………………………………………………………………………………….

3 ) Graph the following functions. Specify the interval over which the function is increasing, decreasing, or constant. Determine whether the function is even, odd, or neither.

A ) B ) C )

D ) E ) F )

…………………………………………………………………………………………………………………………………………………..

4 ) If ,

Find:

……………………………………………………………………………………………………………………………………………………….

5 ) Find the following limits:

A ) B)

C ) D )

E ) F )

G ) H )

I )

…………………………………………………………………………………………………………………………………………….

6 ) Answer the following:

A ) Find the horizontal and the vertical asymptote(s) of the function

B ) does the function have a horizontal asymptote line? Why?

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