QUESTION TWO

1. Given that;

Gf(s) = Gm(s) = 1

y(s) =

y(s) =

y(s) =

y(s) =

y(s) =

y(s) =

y(s) =

y(s) =

y(s) =

y(s) =

y(s) =

y(s) =

y(s) =

y(s) =

y(s) =

y(s) =

y(t) = L-1

y(t) =

1. Given: = 1.5

Recall,

for P: ;

I: ;

D:

Therefore,

For P;

For I;

For D;

QUESTION ONE



F =

Using Taylor’s series;

Multiplying through by ;

L-1

 L-1 L-1

 L-1

 L-1