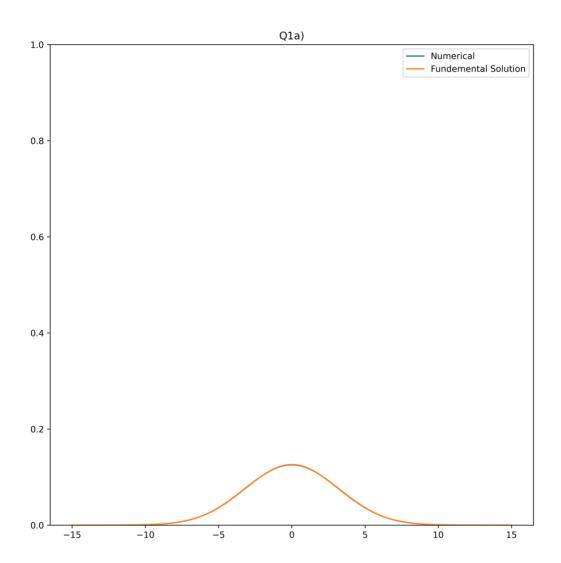
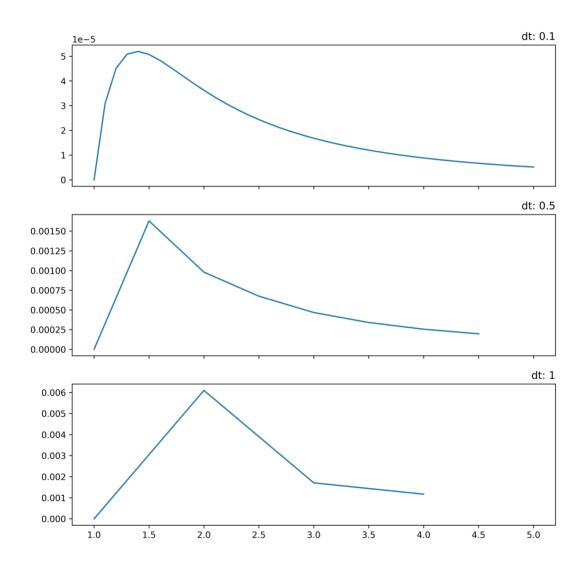
# Computational Physics 3 HW6 Christopher Morris

## Question 1



The numeric solution is almost exactly the fundamental solution at t = 5



### Question 2

a)

D: 1, L: 10; Time for right to reach .5 is 37.9000000000027

D: 4, L: 10; Time for right to reach .5 is 9.59999999999982

D: 1, L: 5; Time for right to reach .5 is 9.59999999999982

Yes they agree.

b)

.5

#### Question 3

dt = .005 and J = 1501

for all pbar/tmax pairs.

I ran out of time to do through more exact testing in order to narrow down the numbers more.

## Question 4

Using dt = .005 and J = 1501

V0: 8

