CS3081 Assignment 3

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Question 1 (Problem 4.26)

1. (a) = 4, (b)= 7
2. (a)=2.2, (b)=7
3. (a)=4, (b)=2.2
4. (a)=7, (b)=4

Your Answer ((i)-(iv)): **(i)**

Question 2 (Problem 6.13)

1. 420W
2. 420KW
3. 530W
4. 580KW

Your Answer ((i)-(iv)): **(ii)**

Question 3 (Problem 8.7)

The truncation error is:

1. O(h)
2. O(h^2)
3. O(h^3)
4. O(h^4)

Your Answer ((i)-(iv)): **(i)**

Question 4 (Problem 8.9)

1. f’\_male(2006)=4965;

f’\_female(2006)=10681;

Predicted\_Males(2008)=673601;

Error\_Males=0.62%;

Predicted\_Females(2008)=277990;

Error\_Females=0.58%

1. f’\_male(2006)=4940;

f’\_female(2006)=10681;

Predicted\_Males(2008)=673601;

Error\_Males=0.62%;

Predicted\_Females(2008)=277987;

Error\_Females=0.57%

1. f’\_male(2006)=4940;

f’\_female(2006)=10681;

Predicted\_Males(2008)=673601;

Error\_Males=0.68%;

Predicted\_Females(2008)=277987;

Error\_Females=0.42%

1. f’\_male(2006)=4965;

f’\_female(2006)=10670;

Predicted\_Males(2008)=673601;

Error\_Males=0.68%;

Predicted\_Females(2008)=277987;

Error\_Females=0.52%

Your Answer ((i)-(iv)): **(ii)**