a) Find $\sum_{i=2}^{7}(3i+2)$ without including $i = 5$ term using the for loop.

```
%% Slide 17- Method One
clear all
sums=0;
for i=2:1:7
% == checks if something is equal to something
% continue means that it will go to end of the loop
% if condition is met.
% Continue does not break out of the loop.
    if i==5
       continue;
    end
     sums=sums+(3*i+2);
end
Slide17sums=sums
Slide17i=i
```

b) In a "for loop", find $\sum_{i=2}^{7}(3i+2)$ without including $i = 5$ term. Use an if statement instead of "continue".

```
%% Slide 17- Method Two
clear all
sums=0;
for i=2:1:7
% ~= checks if something is not equal to something
    if i~=5
       sums=sums+(3*i+2);
    end
end
Slide17_HWb_sums=sums
Slide17_HWb_i=i
```

c) Find $\sum_{i=2}^{7}(3i+2)$ without including $i = 5$ term using the while loop and an if statement.

```
%% Slide 17- Method Three
clear all
sums=0;
i=1;
while i<7
    i=i+1;
% ~= means not equal to
    if i~=5
       sums=sums+(3*i+2);
    end
end
Slide17_HW_sums=sums
Slide17_HW_i=i
```