**for** loop examples

```matlab
for k = 2:0.5:3
    disp(k)
end
```

- `k` takes on the values 2, 2.5, 3
- Non-integer increment is OK

```matlab
for k = 1:4
    disp(k)
end
```

- `k` takes on the values 1, 2, 3, 4
- Default increment is 1

```matlab
for k = 0:-2:-6
    disp(k)
end
```

- `k` takes on the values 0, -2, -4, -6
- “Increment” may be negative

```matlab
for k = 0:-2:-7
    disp(k)
end
```

- `k` takes on the values 0, -2, -4, -6
- Colon expression specifies *bounds*

```matlab
for k = 5:2:1
    disp(k)
end
```

- The set of values for `k` is the empty set: the loop body won’t execute