**1.** Using the colon operator, create the following row vectors:

```
2     3     4     5     6     7
1.1000 1.3000 1.5000 1.7000
8     6     4     2
```

**2.** Give the MATLAB expression that would create a vector (in a variable called `vec`) of 50 elements that range, equally spaced, from 0 to 2π:

**3.** Using the colon operator and also the `linspace` function, create the following row vectors:

```
-5    -4    -3     -2    -1
5     7     9
8     6     4
```

hint:

```
>> % comma separates two different statements in a single line
>> A = 2, B = 3
A =
      2
B =
      3
```

**4.** The built-in function `clock` returns a vector that contains six elements: the first three are the current date (year, month, day) and the last three represent the current time in hours, minutes, and seconds. The seconds is a real number, but all others are integers. Store the result from clock in a variable called myc. Then, store the first three elements from this variable in a variable today and the last three elements in a variable now. Use the fix function on the vector variable now to get just the integer part of the current time.

5. Create a 2x3matrix variable mat. Pass this matrix variable to each of the following functions and make sure you understand the result: `fliplr`, `flipud`, and `rot90`. In how many different ways can you `reshape` it?

6. Create a 3x5 matrix of random integers, each in the inclusive range from -5 to 5. Get the `sign` of every element.