

3. For the function  $y = (x + x\sqrt{x+3})(1+2x^2) - x^3$ , calculate the value of  $y$  for the following values of  $x$  using element-by-element operations: -2, -1.5, -1, -0.5, 0, 0.5, 1, 1.5, 2.

**Solution**

```
>> x=-2:0.5:2
x =
    -2.0000    -1.5000    -1.0000    -0.5000         0
     0.5000     1.0000     1.5000     2.0000
>> y=(x+x.*sqrt(x+3)).*(1+2*x.^2)-x.^3
y =
   -28.0000   -14.9791    -6.2426    -1.8109         0
     2.0281     8.0000    22.3759    50.2492
```

4. For the function  $y = \frac{4\sin x + 6}{4\cos^2 x + \sin x}$ , calculate the value of  $y$  for the following values of  $x$  using element-by-element operations: 15°, 25°, 35°, 45°, 55°, 65°.

**Solution**

```
>> x=15:10:65
x =
     15     25     35     45     55     65
>> y=(4*sind(x)+6)./(cosd(x).^2+sind(x)).^2
y =
     4.9528     4.9694     5.3546     6.0589     7.0372
     8.1775
```

5. The radius,  $r$ , of a sphere can be calculated from its volume,  $V$ , by:

$$r = \sqrt[3]{\frac{3V}{4\pi}}$$

The surface area of a sphere,  $S$ , is given by:

$$S = 4\pi r^2$$

Determine the radius and surface area of spheres with volumes of 4,000, 3,500, 3,000, 2,500, 2,000, 1,500 and 1,000 in<sup>3</sup>. Display the results in a three-column table where the values of  $r$ ,  $V$ , and  $S$  are displayed in the first, second, and third columns, respectively. The values of  $r$  and  $S$  that are displayed in the table should be rounded to the nearest tenth of an inch.

**Solution**

# Matlab Chapter 3

**Patrick Vollmar**



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