

```
%1a. Calculate
```

```
23^4 - 4 * 13^1.5
```

```
ans = 2.7983e+05
```

```
23^4 - 4 * 13^(1/2)
```

```
ans = 2.7983e+05
```

```
23^4 - 4 * sqrt(13)
```

```
ans = 2.7983e+05
```

```
% 1b. Calculate
```

```
4 * pi - 18^3
```

```
ans = -5.8194e+03
```

```
% 2. Find the area of a circle with radius 5 inches.
```

```
radius = 5;           % where radius is in inches.  
area = pi * radius^2   % where area is in inches squared.
```

```
area = 78.5398
```

```
% 3. Use the formula v = ir to find the voltage and  
%      p = v^2 / r to find power.
```

```
R = 100;      % resistance in Ohms.  
i = 5;        % current in Amps.  
v = i * R
```

```
v = 500
```

```
p = v^2 / R
```

```
p = 2500
```