

The image shows the MATLAB R2016a interface. The top menu bar includes HOME, PLOTS, APPS, EDITOR, PUBLISH, and VIEW. The Editor tab is active, showing the file 'MfileExample.m' located at 'C:\Users\Jonathan Emery\Documents\Northwestern-Lecturer\Pregraduate Coursepack\Coding\MATLAB\MfileExample.m'. The code in the Editor is as follows:

```
5  
6 %% Variable Declaration/Preallocation  
7 a = 2;  
8 b = 3;  
9  
10 %% Anonymous Functions  
11 sinc2 = @(x,y) x*sin(y)./y; %Define anonymous function sinc2 with inputs (x,y)  
12  
13 %% Script  
14 [X,Y] = meshgrid(-20:.25:20); %Define the mesh calculation range.  
15 R = sqrt(a*X.^2 + b*Y.^2); %Define value R in terms of X,Y meshpoints.  
16  
17 %% Plot  
18 f = figure; %Create figure and define handle.  
19 set(f,'name','Sinc Function 2D','numbertitle','off') %Name figure  
20  
21 mesh(X,Y,sinc2(a,R),'LineWidth',0.3) %Plot [X,Y,Z] using mesh tool.  
22 axis([-8 8 -8 8 -1 2]) %Set plotranges  
23 xlabel('-8 < x < 8') % x-axis label  
24 ylabel('-8 < y < 8') % y-axis label  
25 zlabel('sinc(x*R)') %z-axis label  
26
```

The Workspace panel on the right is empty. The Command Window at the bottom shows a message: "New to MATLAB? See resources for [Getting Started](#)."

The status bar at the bottom right indicates the current position is at line 18, column 46.