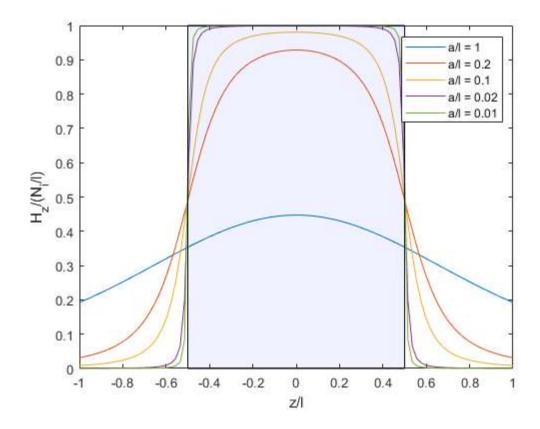
Contents

■ 2.c

```
close all
clear
clc
```

2.c

```
%user defined coefficients and linearly spaced vectors
z = linspace(-1,1,100);
1 = 1;
% different ratios
an = [1, 0.2, 0.1, 0.02, 0.01];
v = [-0.5 \ 0; \ -0.5 \ 1; \ 0.5 \ 1; \ 0.5 \ 0];
f = [1, 2, 3, 4];
% plot the figures
for a = an % plotting each ratio
    H = 0*z;
                   % plotting each point
    H = ((z + 1/2)./sqrt(a^2 + (z + 1/2).^2) - (z - 1/2)./sqrt(a^2 + (z - 1/2).^2));
    figure(1)
    plot(z, H/2)
    hold on
end
xlabel('z/l')
ylabel('H_z/(N_i/1)')
xlim([-1 1])
ylim([0 1])
patch('Faces', f, 'Vertices', v, 'FaceColor', 'blue', 'facealpha', 0.05)
legend('a/l = 1', 'a/l = 0.2', 'a/l = 0.1', 'a/l = 0.02', 'a/l = 0.01')
hold off
```



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