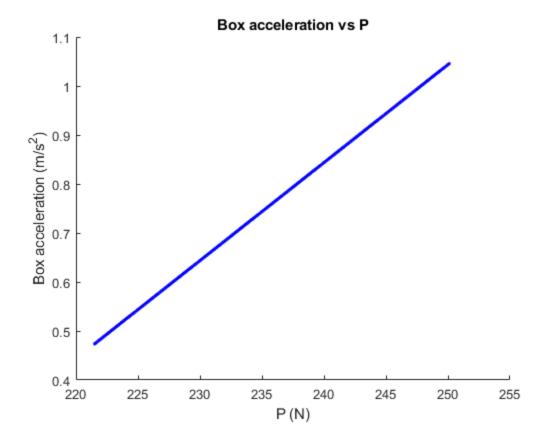
```
%Givens
p = -50;
          %Newtons
m = 50;
          %kg
g = 9.8;
          %m/s^2
mus = .20;
muk = .15;
while p < 250
   p = p + .1;
   if p - m * g * sind( 15 ) < m * g * cosd( 15 ) * mus</pre>
       a = 0;
   elseif p - m * g * sind( 15 ) == m * g * cosd( 15 ) * mus
       disp([ 'Acceleration is zero, because of friction if p is ' ,
p , ' newtons or less' ])
   else
       a = (p - m * g * cosd(15) * muk - m * g * sind(15)) / m;
       hold on
       plot( p , a , '.b' )
   end
end
title( 'Box acceleration vs P' )
xlabel( 'P (N)' )
ylabel( 'Box acceleration (m/s^2)' )
```



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