```
%Part B
x_prime = 170;
z_prime = 475
x = 500
y = 100;
z = 1500;
a1 = 720;
a2 = 805
Px = x - x_prime;
Py = y;
Pz = z - z_prime
theta3 = acosd((Px^2 + Pz^2 - a1^2 - a2^2)/(2*a1*a2))
theta2 = atan2d(Pz,Px)-atan2d((a2*sind(theta3))), (a1 +
a2*cosd(theta3)))
theta1 = atan2d(Py,Px)
z_prime =
   475
x =
  500
a2 =
   805
Pz =
        1025
theta3 =
   90.3410
theta2 =
   23.7742
theta1 =
```

## %Part D theta = [ theta1 theta2 theta3 ] links(1,:) = [ 150 degtorad(90) 475 degtorad(theta(1))]; $links(2,:) = [720 \ 0 \ 0 \ degtorad(theta(2))];$ links(3,:) = [ 805 0 0 degtorad(theta(3))]; A = getA(links) T = getT(A)%Get the Jacobain [o,On] = getO(T);0; z = getZ(T);j1 = getRevJ(z(:,1),On,o(:,1));j2 = getRevJ(z(:,2),On,o(:,2));j3 = getRevJ(z(:,3),On,o(:,3))%Part E $J = [j1 \ j2 \ j3] ;$ jV = J(1:3,:);xdot = [ 5 5 10 0 0 0]' pinv(J) thetadot = pinv(J)\*xdottheta = 16.8584 23.7742 90.3410 Undefined function 'getA' for input arguments of type 'double'. Error in IK (line 30)

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A = getA(links)

16.8584