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### QUESTION 3:

```
% Pose from Figure 1.15 (a)

% Connected to (0, 0) aka (x, y)
u1 = 1; v1 = 2;

% Connected to (x1, 0)
u2 = 2; v2 = 1;

% Connected to (x2, y2)
u3 = 2; v3 = 3;

x1 = 4; x2 = 0; y2 = 4;

figure(2)
plot([u1 u2 u3 u1], [v1 v2 v3 v1], 'r'); hold on           % Platform triangle
plot([0 x1 x2], [0 0 y2], 'bo')                           % Base anchors
plot([u1 u2 u3], [v1 v2 v3], 'ro', 'MarkerSize', 8, 'MarkerFaceColor', 'r')
% Platform joints
plot([u1 0], [v1 0], 'k--')    % p1
plot([u2 x1], [v2 0], 'k--')  % p2
plot([u3 x2], [v3 y2], 'k--') % p3
title('Figure 1.15 (a)')
xlabel('x')
ylabel('y')
drawnow;

% Pose from Figure 1.15 (b)

% Connected to (0, 0) aka (x, y)
u1 = 2; v1 = 1;

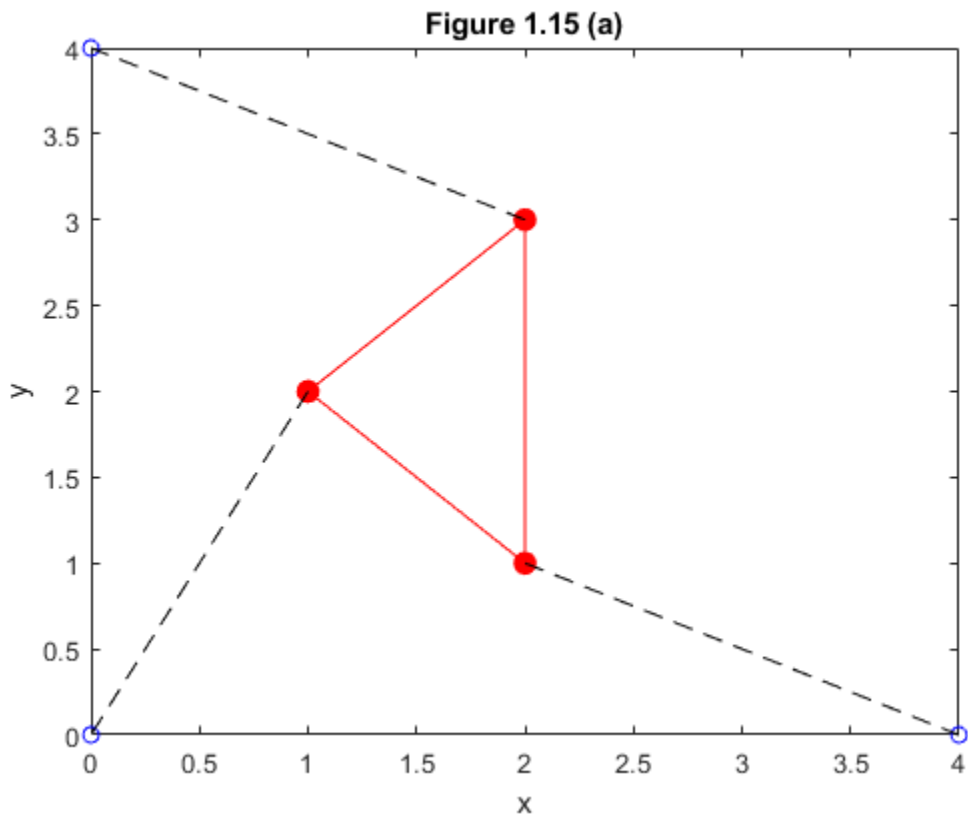
% Connected to (x1, 0)
u2 = 3; v2 = 2;

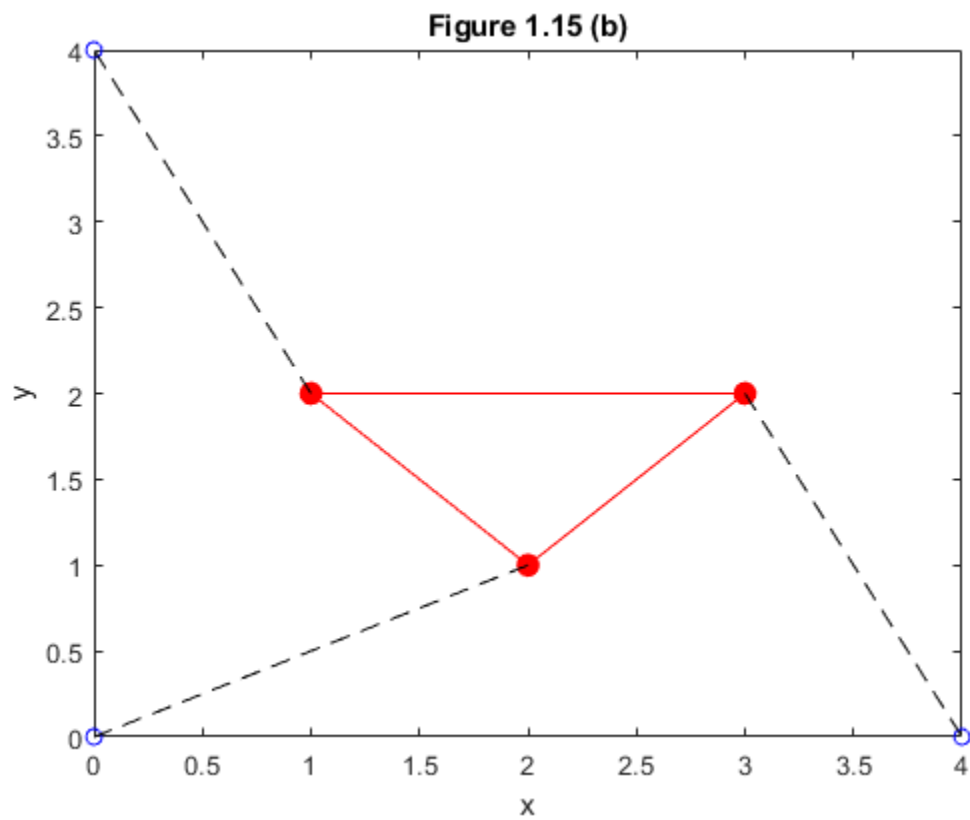
% Connected to (x2, y2)
u3 = 1; v3 = 2;

x1 = 4; x2 = 0; y2 = 4;

figure(3)
plot([u1 u2 u3 u1], [v1 v2 v3 v1], 'r'); hold on           % Platform triangle
plot([0 x1 x2], [0 0 y2], 'bo')                           % Base anchors
plot([u1 u2 u3], [v1 v2 v3], 'ro', 'MarkerSize', 8, 'MarkerFaceColor', 'r')
% Platform joints
plot([u1 0], [v1 0], 'k--')    % p1
```

```
% Here, we're just reproducing Figure 1.15 (a) and (b)
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