

STEP 4

Do this *continued*

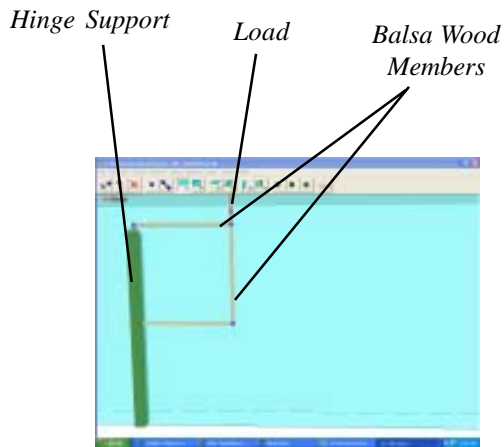


FIGURE 3-1

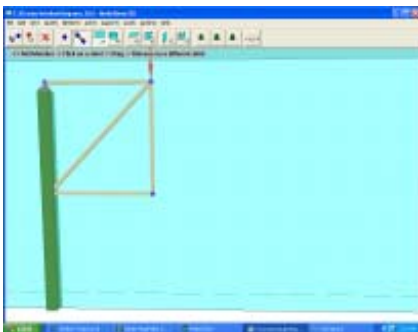


FIGURE 3-2

2. Navigate to the C:\Program Files\Cruiser\734_ENGBridge\Students directory, select the “Square.3dd” file, then click the Open button.

Note: This screen (**Figure 3-1**) simulates the hinged door problem that you encountered in **Activity 1**.

Applying a Force

In just a moment you will apply a force (the load) to the structure and determine which members are under compression and which are under tension.

1. Click Analysis and select Run the Analysis! *The colors of the members changed after the displacement took place. Green means that a member was under compression, and blue represents a member under tension.*
2. Look at the colors of the three members that are visible to see that the right and bottom members are green and the top member is blue. *Also note the great amount of distortion of the gate with the force that was applied.*
3. Click Analysis on the menu bar and select Clear Results.
4. As you did in **Activity 1**, make the structure stronger by clicking Members on the menu bar and selecting Add.
5. Move the cursor to the upper right joint, click and hold the mouse button, move the cursor to the lower left joint (hidden by the support), and release the mouse button (**Figure 3-2**).

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