

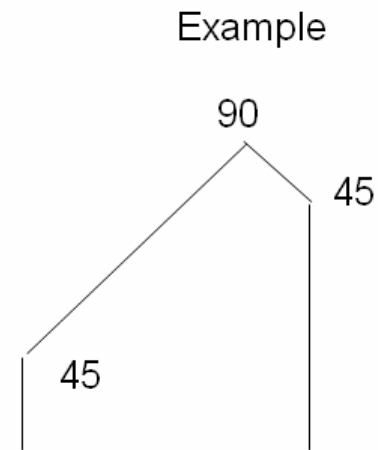
GREHOUSE GEOMETRY ANGLES

By Cordell Vail

When building a greenhouse out of PCV pipe, the dimensions of the front wall, front roof, back roof and back wall really don't matter. That just changes the shape of the greenhouse.

The thing that does matter is the angle of the front wall to roof, the angle of the roof to roof, and the angle of the roof to back wall. You can not change those angles because you can not buy a PCV pipe fitting in other than 90 degrees or 45 degrees. So those two angles can not change. Every thing else can change.

If the front wall is shorter, the roof just has to be longer until it makes a 45 degree angle from the wall to the roof and a 90 degree turn at the roof top



The PCV pipe fittings you will need to build a greenhouse

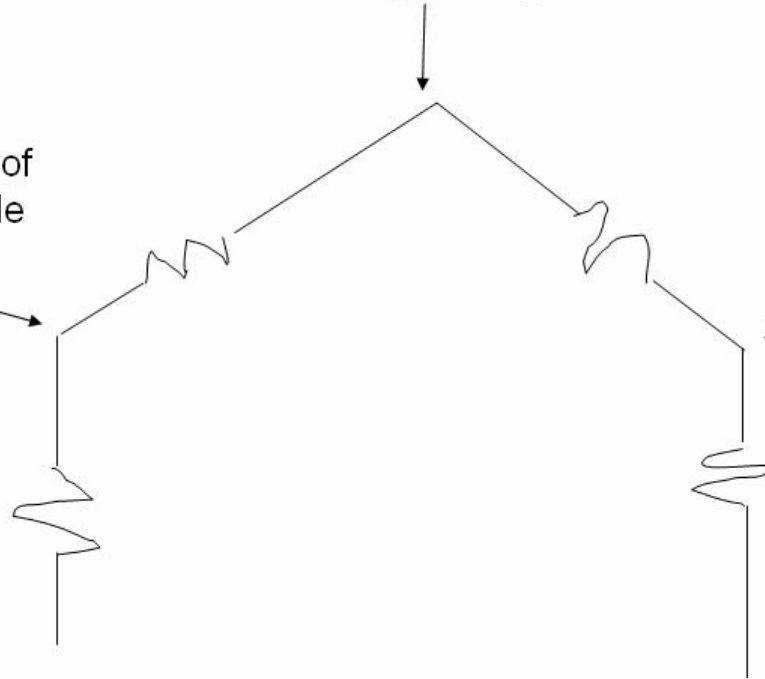


Roof to roof PCV pipe
90 degree angle



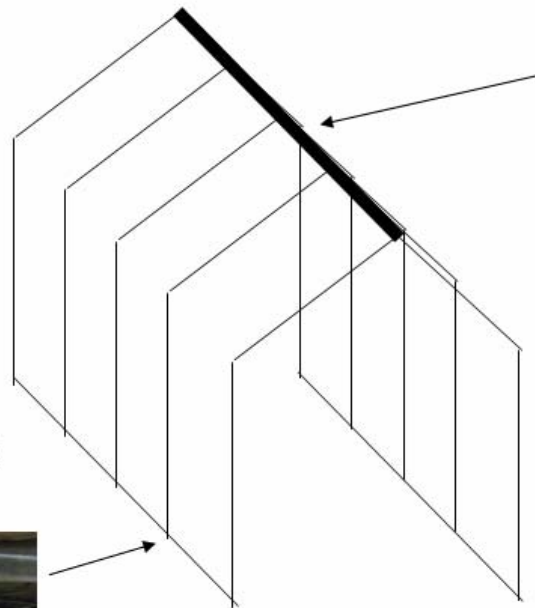
Roof to back wall
45 degree angle
PCV pipe joint

Front wall to roof
45 degree angle
PCV pipe joint



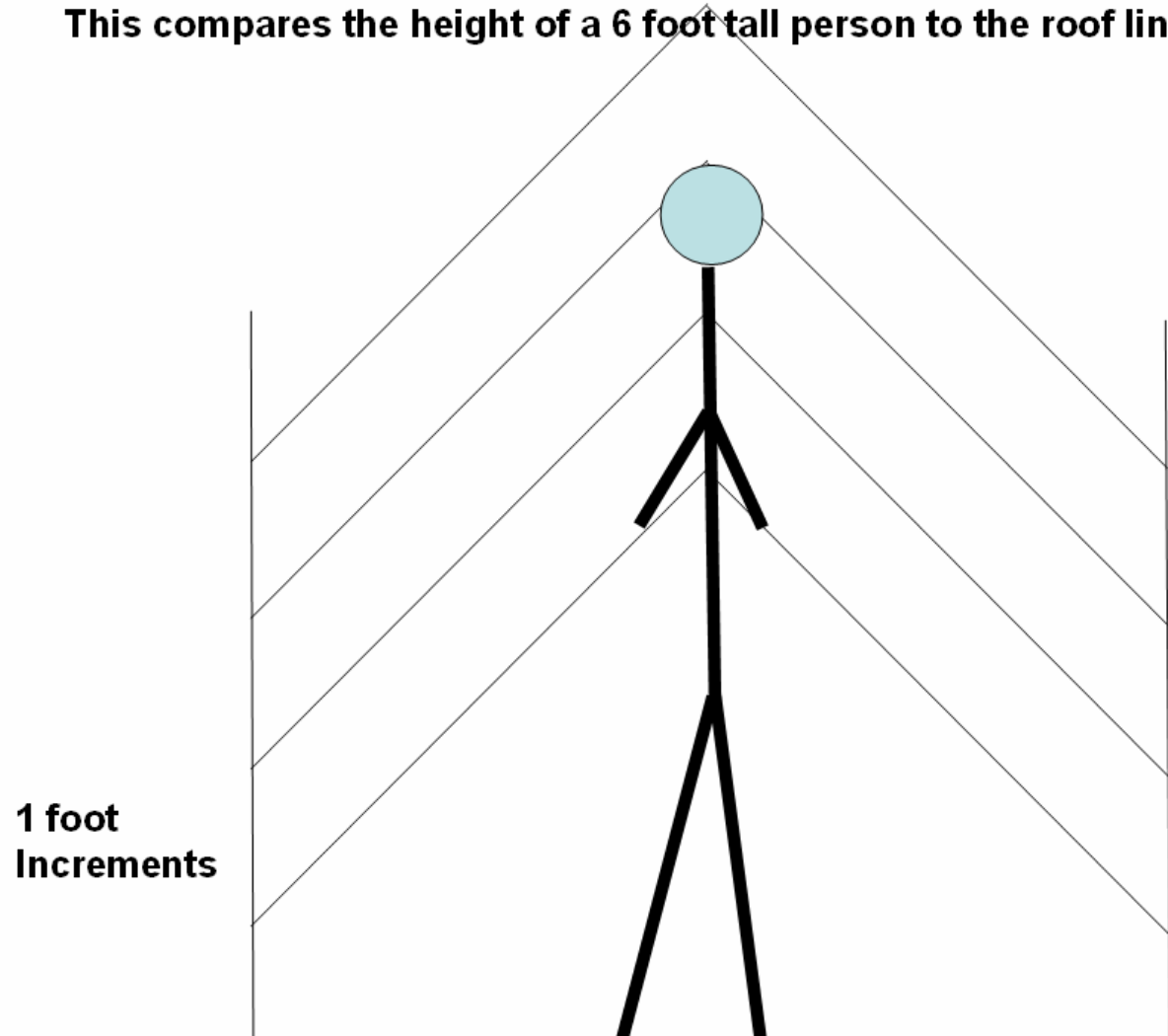
How long the greenhouse is just depends on how many rungs you add. The rungs are 3 ½ feet apart.

PCV pipe T-joint
connection between
rungs

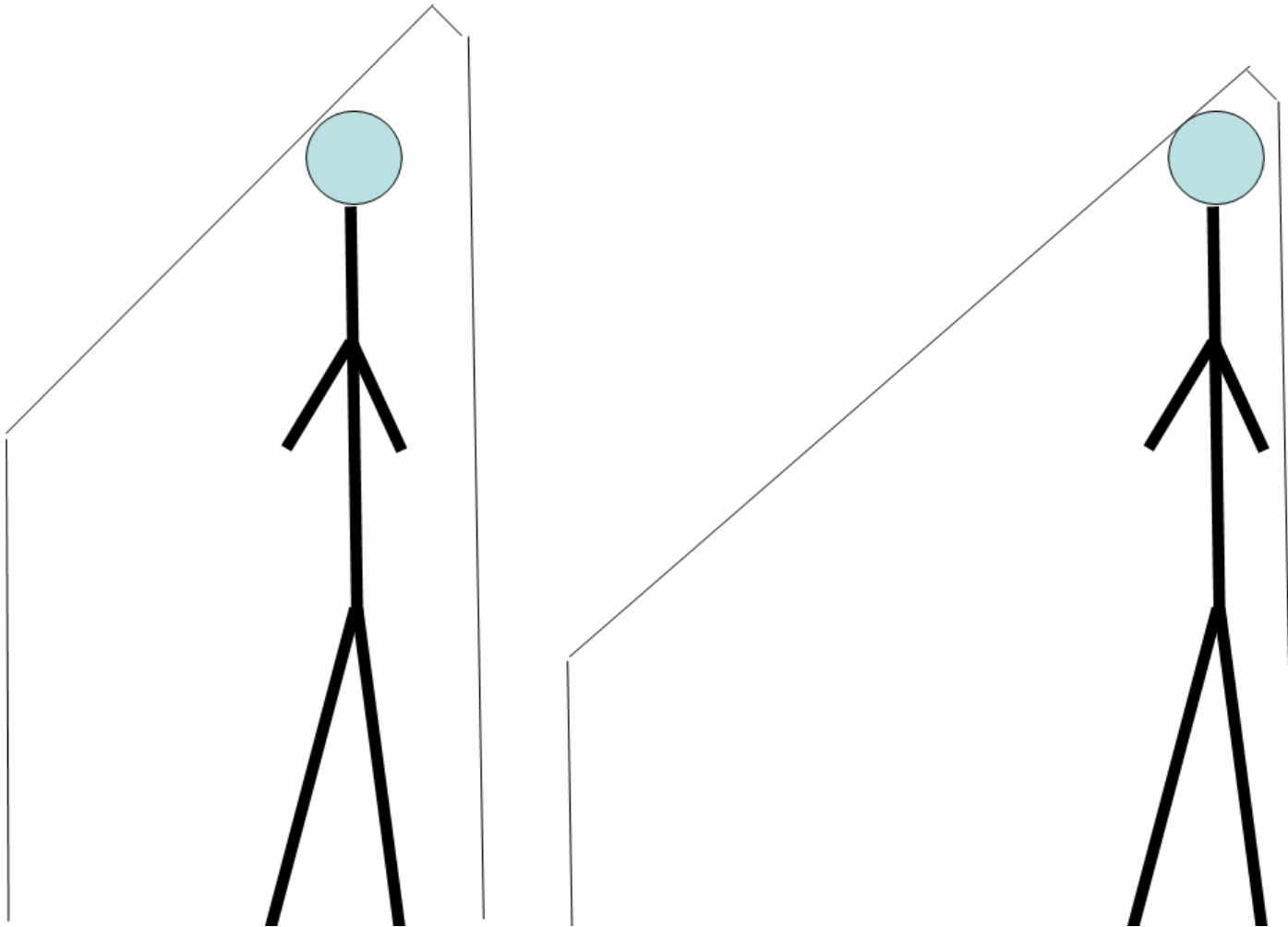


You can connect rungs together at the top with a piece of electrical conduit pipe. Just lash the rungs to the conduit pipe, or you can drill a hole and then put a bold through the PCV and conduit to hold it secure.

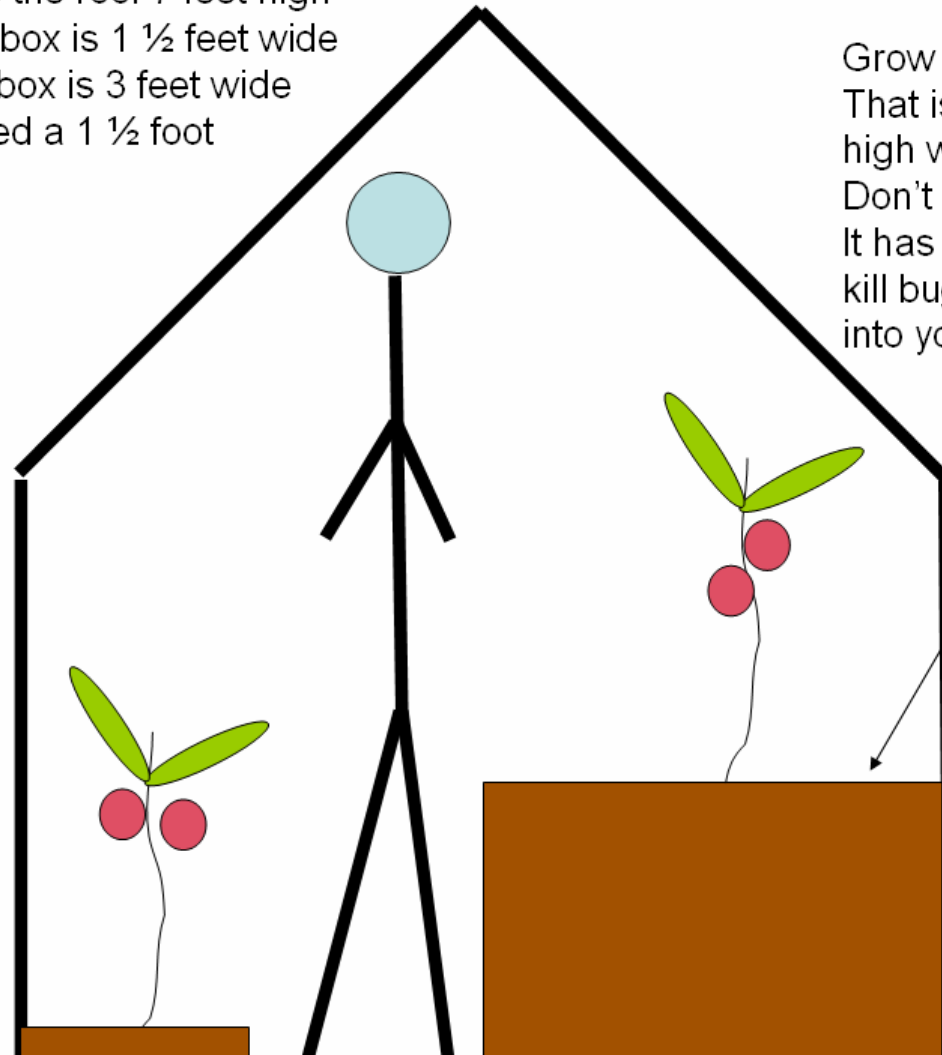
**You have to think about how high it will be when you are standing up in it.
This compares the height of a 6 foot tall person to the roof line.**



You have to think about how much room you will have for plants and still have a walk way for you to walk in.

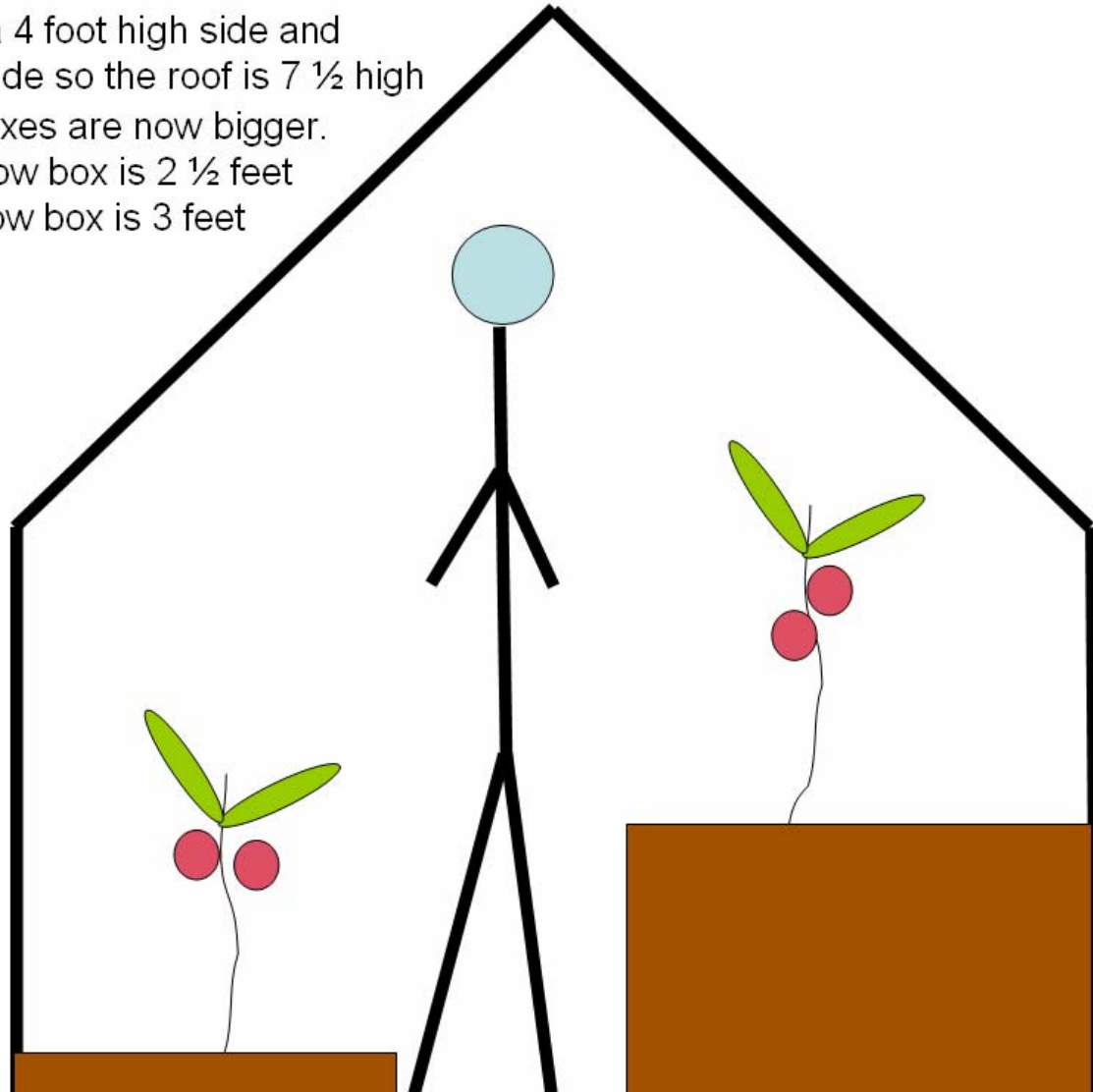


This is a 4 foot side 6 foot wide.
That makes the roof 7 feet high
Front grow box is 1 ½ feet wide
Back grow box is 3 feet wide
You will need a 1 ½ foot
walkway.



Grow box 4 - 4 X 6's
That is about 23 inches
high when done.
Don't use treated wood.
It has cyanide in it to
kill bugs. It will leach
into your plants too.

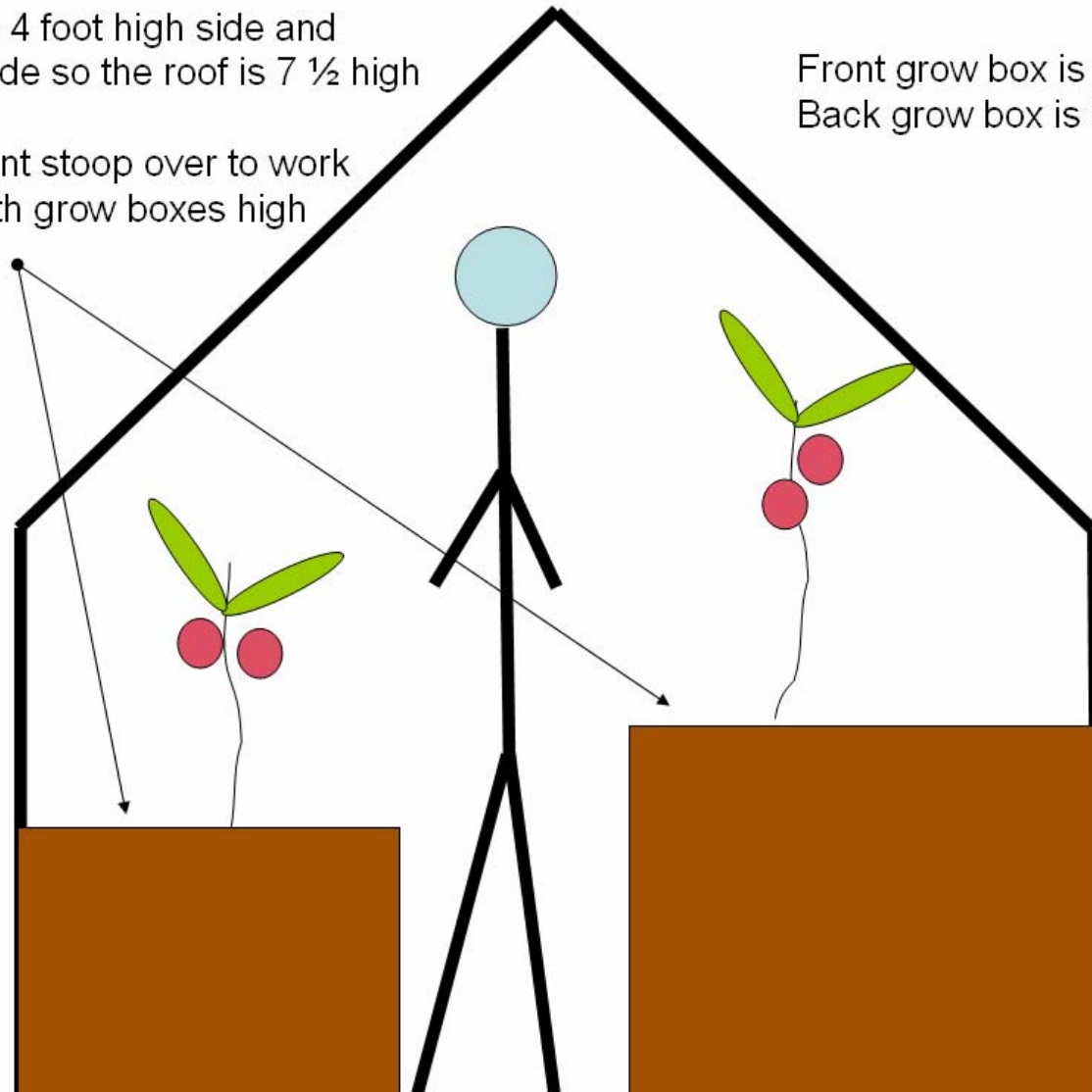
This is a 4 foot high side and
7 foot wide so the roof is 7 ½ high
Grow boxes are now bigger.
Front grow box is 2 ½ feet
Back grow box is 3 feet



This is a 4 foot high side and
7 foot wide so the roof is 7 ½ high

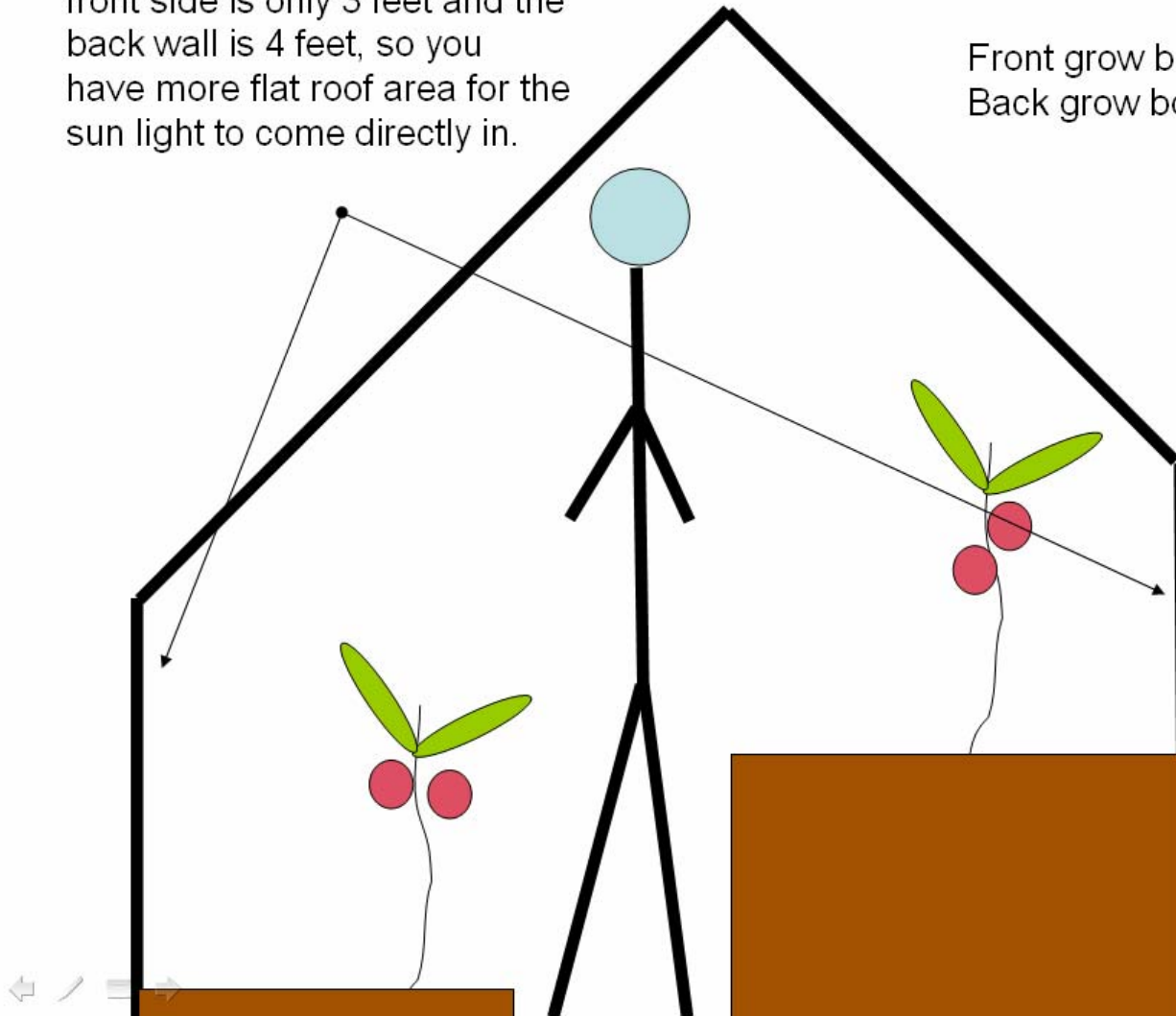
If you cant stoop over to work
have both grow boxes high

Front grow box is 2 ½ feet
Back grow box is 3 feet



This is the same 7 foot wide but front side is only 3 feet and the back wall is 4 feet, so you have more flat roof area for the sun light to come directly in.

Front grow box is 2 ½ feet
Back grow box is 3 feet



This is an 8 foot wide with a
2 foot front side - gives more direct sun.
Front grow box is 3 ½ feet
Back grow box is 3 feet
Head room is still adequate
Plant smaller plants like
peppers on front wall

The PCV pipe lengths
for this one would be:
2 foot front wall
7 foot front roof,
4' 3" back roof and
4 foot back wall

