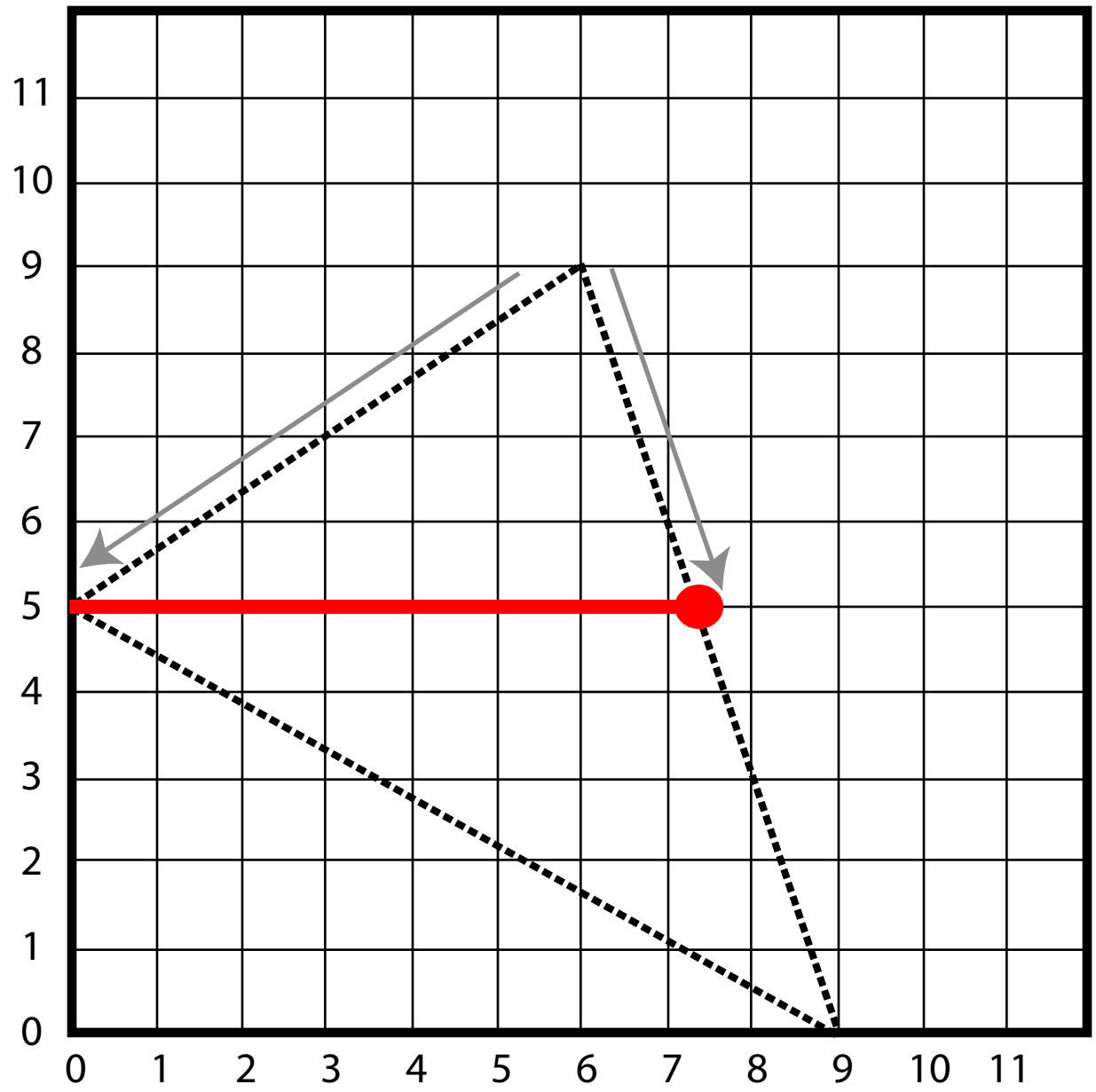

1) Sort vertices by y-value. So,

$P_0 = (x_0, y_0) = (6, 9)$
$P_1 = (x_1, y_1) = (0, 5)$
$P_2 = (x_2, y_2) = (9, 0)$

Note, as long as you're consistant it doesn't matter if you sort in ascending or descending order.

2) Split triangle in two, to guarantee that each triangle either has a horizontal top or bottom!

3) Compute Δx_{left} and Δx_{right} for a unit change in y along the two edges.

(In this case, Δx_{left} = -1.5 and Δx_{right} = 0.3333 for the upper triangle.)

4) Start from the top (or bottom), fill in the span, and for each susequent y-span, incrementally compute

$x_{min} = x_{min\text{-}old} + (\text{or } -)\ \Delta x_{left}$ and
$x_{max} = x_{max\text{-}old} + (\text{or } -)\ \Delta x_{right}$