Exercise Computer graphics – (till October 5, 2007)

Ultra-fast line drawing

Exercise 6:   In the lecture we have seen the mid-point algorithm for ellipses, however, only the part of the ellipse between 45° and 90° was drawn. Finish the arc between 0° and 45° and include it into the application.

Exercise 7:   Reduce the ellipse-version of the mid-point algorithms to circles. Why is this version faster?

$(d-0.5, 1)$ or
$(xp-0.5, yp+1)$

$(a,0)$

$F(a,0) = 0$