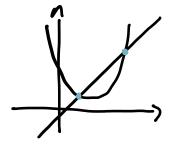
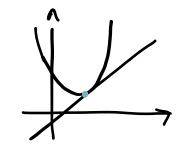
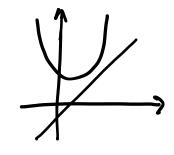


## Intersections

real roots







2 intersections 2 distinct real rvots

D > 0

"intersects, meets at 2 points"

1 intersection 2 real and equal rivis

D = 0

"tangent"

no intersection

no real roots

D 40

Equation is always positive / negative