SEC 8.4 GENERAL CONICS

1. GENERAL FORM FOR A CONIC

Ax2 + Bxy+ Cy2+ Dx + Ey + F = 0

B2-4AC < 0 CIRCLE OR ELLIPSE

B2-4AC = O PARABOLA

B2-4AC > 0 HYPERBOLA

IF NO BXY" TERM EXISTS

A = C URCLE

A + C BUT BOTH POSITIVE - ELLIPSE

ONLY ONE SQUARED TERM EXISTS - PARABOLA

A 7 C BUT ONE POSITIVE THE OTHER NEGATIVE
THEN - HYPERBOLA