















4























IDENTIFYING CONIC SECTIONS
FROM GENERAL FORM
$$y^{2} - 8x - 10y + 1 = 0$$
$$Ax^{2} + Bxy + Cy^{2} + Dx + Ey + F = 0$$
$$A = 0, B = 0, \text{ and } C = 1$$
$$B^{2} - 4AC$$
$$0^{2} - 4(0)(1) = 0$$







IDENTIFYING CONIC SECTIONS
FROM GENERAL FORM
$$(x+4)^{2} + (y-2)^{2} = 3$$
$$Ax^{2} + Bxy + Cy^{2} + Dx + Ey + F = 0$$
$$(x^{2}+8x+16) + (y^{2}-4y+4) = 3$$
$$x^{2} + y^{2} + 8x - 4y + 17 = 0$$
$$A = 1, B = 0, \text{ and } C = 1$$
$$B^{2} - 4AC$$
$$0^{2} - 4(1)(1) = -4$$





