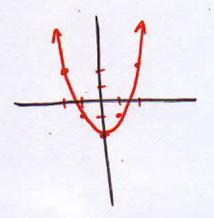
1. SKETCH BY PLOTTING POINTS

$$y = \chi^2 - 2$$

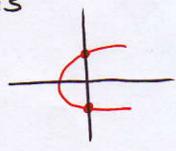


2. X-INTERCEPT: POINTS WHERE THE GRAPH CROSSES 2-AXIS



POINTS WHERE THE GRAPH 4-INTERCEPT: CROSSES 4-AXIS

(6,0)



4. EQUATION OF A CIRCLE:

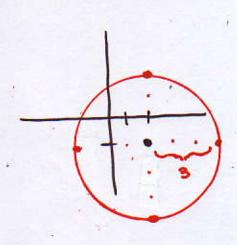
IS THE CENTER

AND T = RADIUS

EXAMPLE:
$$(\chi-z)^2 + (y+1)^2 = 9$$

CENTER $(z,-1)$

PADIUS 3



5. GENERAL FORM

$$\chi^{2} + y^{2} + cx + dy + e = 0$$

$$6x.$$
 $x^2 + y^2 + 2x - 6y + 7 = 0$

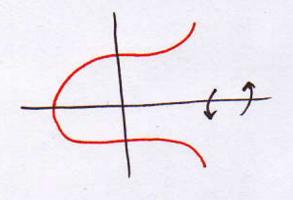
SAY: X'S WITH X'S, Y'S WITH Y'S, CONSTANT ON THE OTHER SIDE.

THEN: COMPLETE THE SQUARE

$$\chi^{2} + 2\chi + \frac{1}{2} + \chi^{2} - 6y + \frac{3^{2}}{2} = -7 + \frac{1}{2} + \frac{9}{2}$$
 $(\chi + 1)^{2} + (y - 3)^{2} = 3$
 $(\chi + 1)^{2} + (y - 3)^{2} = 3$
 $\chi^{2} + 2\chi + \frac{1}{2} + \frac{9}{2} = -7 + \frac{1}{2} + \frac{9}{2}$
 $\chi^{2} + 2\chi + \frac{1}{2} + \frac{9}{2} = -7 + \frac{1}{2} + \frac{9}{2}$
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 $\chi^{2} + 2\chi + \frac{1}{2} + \frac{9}{2} + \frac{9}{2} = -7 + \frac{1}{2} + \frac{9}{2} = -7$

6. DEFINITION OF SYMMETRY: A MIRROR-IMAGE ON EACH SIDE OF AXES.

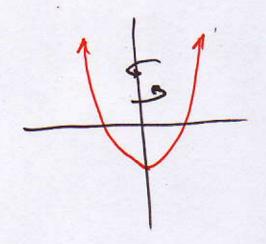
SYMMETRY ABOUT 72-AXIS



-y AND SEE

· IF EQUATION REMAINS UNCHANGED.

SYMMETRY ABOUT Y-AXIS



TEST

REPLACE X WITH

-X AND SEE

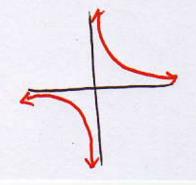
IF EQUATION REMAINS

UNCHANGED

SYMMETRY ABOUT

THE ORIGIN

TEST



- REPLACE X WITH -X
- · REPLACE y WITH y
- · EQUATION UNCHANGED