

 $\Rightarrow \chi^2 + y^2 = r^2 \rightarrow centre = (0,0)$

 $\Rightarrow (x-a)^2 + (y-b)^2 = r^2 \longrightarrow centre = a, b$

> x2+y2+2gx+2by+c=0 -> centre=(g,-b)

Radius = 192+82-c

Egn of Circle in Diameter form

 $(x-x_1)(x-x_2) + (y-y_1)(y-y_2) = 0$

Intercept = 2 Ja2co. UK

y Intercept = 2 Ja2co. UK

y Intercept = 2 Ja2co. UK

Parametric (rethrets)

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Dre (1/2000, r. smb)

from Note 37 R-c
Page (1000, 1 smb)

Parametric coordinates of end pot of diameter

> (coop, rsure)

(-rcost, -roma)

ell, a>b eca b>a a x2 + 42 = 1 $\frac{\chi^2}{a^2} + \frac{4^2}{b^2} = 1$ [R = 202 Focus - (±ae,0) focus = 0, the Dirictin $\rightarrow \chi = \pm \frac{a}{e}$ Vester = 0, 16 length of Major anis = 20] Verten = $(\pm a_10)$ | Lenting a legis any otes any of $b^2 = a^2(1-e^2)$ | Dage 13 | $a^2 = b^2(1-e^2)$ | Entry a later a | $a^2 = b^2(1-e^2)$ But of Laty Rachin taz, the ±ae,±b2 Sis'- focus TPS + PS' = 2b PS + PS = 2a