$$(a)$$

$$(b)$$

2. Show that each of the form revise exc(a) for
(iff)
$$x^{2} + 5x^{2} + 1^{2$$

Find the bisectors even for
it
$$3x^{2} + 8xy_{3} + 4yy_{4} = 0$$

Ans
The even is

$$\frac{x^{2} - 4^{2}}{z - b} = \frac{xy}{y} \Rightarrow \frac{x^{2} - y^{2}}{z - 4} = \frac{xy}{4}$$

$$= \frac{x^{2} - 4y^{2}}{z - b} = \frac{xy}{y} \Rightarrow \frac{(4x^{2} + xy_{3} - 4y^{2} = 0)}{(4x^{2} + xy_{3} - 4y^{2} = 0)}$$
if $x^{2} - 4y^{2} = -xy \Rightarrow (4x^{2} + xy_{3} - 4y^{2} = 0)$
if $x^{2} + xy - 6^{x^{2}} + 7x + 3! \frac{y}{18} = 0$
Ant
tavisform the even to Point (h, k) to dominate if delive torms
put $x = x^{3} + h$ and $y = y^{3} + k$, Then
 $(x^{3} + h)^{2} + (x^{3} + h)(y^{3} + k) - 6(y^{3} + k)^{2} + 7(x^{3} + h) + 3!(y^{3} + k) - 6y^{2} - 12ky^{3} - 6y^{2} + 7k + 3! \frac{y^{3}}{y^{3}} + kx^{2} + 4yy^{3} + 6y^{3} + 12k + 3! \frac{y^{3}}{y^{3}} + kx^{2} + 4yy^{3} + 6y^{3} - 12k \frac{y^{3}}{y^{3}} - 6y^{2} + 7k + 3! \frac{y^{3}}{y^{3}} + kx^{2} + 4yy^{3} + 6y^{3} + 12k + 71) + (h^{1} + hK - 6K^{2} + 7h + 7!(K + 16)) = 0$
to deminat x^{14} define torms, Then
 $(x^{1} + k^{3} + y^{3} - 6y^{3} + x^{2} (2h + k + 7) + y^{3} (h - 12k + 71) + (h^{1} + hK - 6K^{2} + 7h + 7!(K + 16)) = 0$
to deminat x^{14} define torms, Then
 $(x^{1} + x^{3} + y^{3} - 6y^{3} ^{2} = 0)$
Then the expl of bisectors with be
 $\frac{x^{1^{2}} - 4y^{3}}{1 - (-6)} = \frac{x^{3} y^{3}}{1/4} \Rightarrow x^{3^{2}} - y^{3^{2}} = 144x^{3}y^{3}$
 $x^{-h} = \frac{y^{3} - K}{1 - (-6)} = \frac{x^{3} y^{1}}{1/4} \Rightarrow x^{3^{2}} - y^{3^{2}} = 144x^{3}y^{3}$
 $(x + \frac{25}{3})^{2} - 144(x^{3} + y^{3}) - (y^{2} = 0) \Rightarrow hut x^{3} = x + \frac{3}{5}, y^{3} = y^{3} - \frac{11}{5}$
 $(x + \frac{25}{3})^{2} - 144(x^{3} + 2^{3})(y - (\frac{1}{5}) - (y - \frac{1}{5})^{2} = 0)$
 $x^{3} + \frac{4x}{4} x^{3} - \frac{4x}{3} + x^{3} + 6x + 4x^{3} + 4x^{3$

Find of the fair of lines disting the origin to the function which
the line
$$[x + m_3 = n]$$
 interacts the case
 $[x^{2} + 2hx^{3} + by^{2} + 23x + 2fy + C = 0] + 0$
is
 $[x^{2} + 2hx^{3} + by^{2} + (3x + 2fy)(\frac{1x + my}{3}) + c(\frac{1x + my}{3})^{2} = 0]$
 $[f + f + 2hx^{3} + by^{2} + (3x + 2fy)(\frac{1x + my}{3}) + c(\frac{1x + my}{3})^{2} = 0]$
 $[f + f + 2hx^{3} + by^{2} + (3x + 2fy)(\frac{1x + my}{3}) + c(\frac{1x + my}{3})^{2} = 0]$
 $[f + f + 2hx^{3} + by^{2} + (3x + 2fy)(\frac{1x + my}{3}) + c(\frac{1x + my}{3})^{2} = 0]$
 $[f + f + 2hx^{3} + by^{2} + (3x + 2fy)(\frac{1x + my}{3}) + c(\frac{1x + my}{3})^{2} = 0]$
This is called homodenising $\rightarrow \pm [2h(x, 0, 0) - 2h(x)]$
 $[f + f + 2hx^{3} - f + 2hx^{3} - f + 2hx^{3} - 2hy^{3} - 2hx^{3}]$
 $[f + f + 2hx^{3} - f + 2hx^{3} - f + 2hx^{3} - 2hy^{3} - 2hx^{3}]$
 $[f + f + 2hx^{3} - f + 2hx^{3} - 12hx^{3} - 2hx^{3}]$
 $[f + 2hx^{3} - f + 2hx^{3} - 12hy^{3} - 2hx^{3}]$
 $[f + 2hx^{3} - f + 2hx^{3} - 12hy^{3}]$
 $[f + 2hx^{3} - f + 2hx^{3} - 12hy^{3}]$
 $[f + 2hx^{3} - 2hx^{3} - 12hy^{3}]$
 $[f + 2hx^{3} - 12hy^{3} - 12hy^{3}]$
 $[f + 2hy^{3} - 12hy^{3} - 12hy^{3}]$
 $[f + 2hy^{3} - 12hy^{3} - 12hy^{3}]$
 $[h + 2hy^$

3. First the day is the shallshill likes through the origin.
ach of which makes an angle a with the dire is at is

$$x^{2} - 2xy \sin a + y^{2} = 0$$

And
 $2x^{2} + 2h + xy + b + y^{2} = 0 + 0$ (able to some the
 $2x^{2} + 2h + xy + b + y^{2} = 0 + 0$ (able to some the
 $2x^{2} + 2h + xy + b + y^{2} = 0 + 0$ (able to some the
 $2x^{2} - 4x^{2} - 4x^{2} + 2h + xy + b + y^{2} = 0 + 0$ (able to some the
 $x^{2} - 4x^{2} - 4x^{2} + 2h + xy + b + y^{2} = 0 + 0$ (b)
 $x^{2} - 4x^{2} - 4x^{2} + 2h + xy + d + y^{2} = 0 + 0$ (b)
 $x^{2} - 4x^{2} - 4x^{2} + 2h + xy + d + 2y^{2} = 0 + 0$ (c)
 $x^{2} - 4x^{2} + 2h + xy + d + 2y^{2} = 0 + 0$ (c)
 $x^{2} - 4x^{2} + 2h + xy + d + 2y^{2} = 0 + 0$ (c)
 $x^{2} - 4x^{2} - 4x^{2} + 2h + xy + d + 2y^{2} = 0 + 0$ (c)
 $x^{2} - 4x^{2} + 2h + xy + d + 2y^{2} = 0 + 0$ (c)
 $x^{2} - 4x^{2} + 2h + xy + d + 2y^{2} = 0 + 0$ (c)
 $x^{2} + 2h + 2h + xy + d + 2y^{2} = 0 + 0$ (c)
 $x^{2} - 4x^{2} + 2h + xy + d + 2y^{2} = 0 + 0$ (c)
 $x^{2} + 2x^{2} + 2h + xy + d + 2y^{2} = 0 + 0$ (c)
 $x^{2} + 2x^{2} + 2h + xy + d + 2y^{2} = 0 + 0$ (c)
 $x^{2} + 2x^{2} + 2h + 2y^{2} = 0$ (c)
 $x^{2} + 2x^{2} + 2h + 2y^{2} = 0$ (c)
 $x^{2} - 2x^{2} + 2x^{2} + y^{2} = 0$ (c)
 $x^{2} - 2x^{2} + 2x^{2} + y^{2} = 0$ (c)
 $x^{2} - 2x^{2} + 2x^{2} + y^{2} = 0$ (c)
 $x^{2} + 2x^{2} + 2x^{2} + y^{2} = 0$ (c)
 $x^{2} - 2x^{2} + 2x^{2} + y^{2} = 0$ (c)
 $x^{2} - 2x^{2} + 2x^{2} + y^{2} = 0$ (c)
 $x^{2} - 2x^{2} + 2x^{2} + y^{2} = 0$ (c)
 $x^{2} - 2x^{2} +$

100

and the second second

A

1. If drams is a divid of the circle
$$x^{n} + y^{n} = a^{n}$$
 which subtends
 $a_{1}a^{2}(1+m^{2})-g = [a^{2}(1+m^{n})-g^{2}]$
The ded of the dates $(2a + a^{2}) = a^{n}$
 $a_{2}a^{n}$
 $a_{2}a^{n}$
 $a_{2}a^{n} + 2h(x^{2}) + 8y^{n} = a^{n}$ de these faces through (a, b)
 $a_{1}a^{n} + 2h(x^{2}) + 8y^{n} = a^{n}$ de these faces through (a, b)
 $a_{1}a^{n} + 2h(x^{2}) + 8y^{n} = a^{n}$ de these faces through (a, b)
 $a_{1}a^{n} + 2h(x^{2}) + 8y^{n} = a^{n}$ de these faces through (a, b)
 $a_{2}a^{n} + 2a^{n} - a^{2} = a^{n} + 2a^{n} + y^{n} - a^{n}(1+x^{n}) + m^{n}y^{n} = a^{n}(1+a^{n})^{$