$$\Rightarrow 16(x'^{2}\cos^{2}\theta + y'^{2}\sin^{2}\theta - 2x'y'\cos\theta\sin\theta) - 8\sqrt{2}(x'^{2}\cos\theta\sin\theta + x'y'\cos^{2}\theta - x'y'\sin^{2}\theta - y'^{2}\cos\theta\sin\theta) + 2(x'^{2}\sin^{2}\theta + y'^{2}\cos^{2}\theta + 2x'y'\cos\theta\sin\theta) + (8\sqrt{2} - 3)(x'\cos\theta - y'\sin\theta) - (6\sqrt{2} + 4)(x'\sin\theta + y'\cos\theta) - 7 = 0$$

$$=> \sin^2 \theta \left( |by|^2 + 8\sqrt{2} x'y' + 2x'^2 \right) + \cos^2 \theta \left( |bx'^2 - 8\sqrt{2} x'y' + 2y'^2 \right) + \cos \theta \sin \theta \left( -32x'y' - 8\sqrt{2} x'^2 + 8\sqrt{2} y'^2 + 4x'y' \right) + \sin \theta \left( -8\sqrt{2} y' + 3y' - 6\sqrt{2}x' - 4x' \right) + \cos \theta \left( 8\sqrt{2}x' - 3x' - 6\sqrt{2}y' + 2x'^2 \right)$$

$$\Rightarrow \frac{1}{6} \left( |by|^2 + 8\sqrt{2}x'y' + 2x'^2 \right)$$

 $-\frac{1}{3}(-8\sqrt{2}y'+3y'-6\sqrt{2}x'-4x')+\frac{2\sqrt{2}}{3}(8\sqrt{2}x'-3x'-6\sqrt{2}y'$  -4y')-7=0

$$\Rightarrow \frac{16}{9}y^{2} + \frac{8\sqrt{2}}{9}xy + \frac{2}{9}x^{2} + \frac{128}{9}x^{2} - \frac{64\sqrt{2}}{9}xy + \frac{16}{9}y^{2} + \frac{56\sqrt{2}}{9}xy + \frac{32}{9}x^{2} - \frac{32}{9}y^{2} + \frac{8\sqrt{2}}{3}y - y + 2\sqrt{2}x + \frac{4}{3}x + \frac{32}{3}x + \frac{32}{3}x$$

$$\Rightarrow x^{2} \left(\frac{2}{9} + \frac{128}{9} + \frac{32}{9}\right)^{3} + y^{2} \left(\frac{16}{9} + \frac{16}{9} - \frac{32}{9}\right) + x \left(2\sqrt{2} + \frac{4}{3} + \frac{32}{3} - 2\sqrt{2}\right)$$

$$+ y \left(\frac{8\sqrt{2}}{3} - 1 - 8 - \frac{8\sqrt{2}}{3}\right) - 7 = 0$$
PARABOLA!!

$$\Rightarrow 18((7+1)^{2}-1) = 5y+7 \Rightarrow (7+1)^{2} = \frac{(y+5)}{2}$$

(A)(B)

$$(5x+20)^2 = 25x^2 + 200x + 400$$
  
 $(3y-3)^2 = 9y^2 - 18y + 9$ 

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$$25x + 200x = (5x + 20)^{2} - 400$$
$$-9y^{2} + 18y = -(3y - 3)^{2} + 9$$

moka 
$$25x^{2} - 9y^{2} + 200x + 18y + 166 = 0$$
  
=  $(5x + 20)^{2} - 400 + 9 - (3y - 3)^{2} + 166 = 0$   
=  $(5x + 20)^{2} - (3y - 3)^{2} = 225$   
=  $(5x + 20)^{2} - (3y - 3)^{2} = 1 \Rightarrow \frac{x^{2}}{a^{2}} - \frac{y^{2}}{b^{2}} = 1$ 

(B) (a) 
$$A = 16$$
,  $B = -8\sqrt{2}$ ,  $C = 2$   
Let  $O = \frac{1}{2} \operatorname{arc} \cot \frac{A-C}{B} = \frac{1}{2} \operatorname{arc} \cot \frac{14}{8\sqrt{2}}$   
 $O = -\frac{1}{2} \operatorname{arc} \cot \frac{7}{4\sqrt{2}}$ 
ANGKANYA GAENAK!

persamaan tersebut adalah niperbola

$$X = X'\cos \Theta - y'\sin \Theta$$
,  $y = X'\sin \Theta + y'\cos \Theta$   
 $X^2 = X'^2\cos^2\Theta + y'^2\sin^2\Theta - 2X'y'\cos\Theta\sin\Theta$   
 $y^2 = X'^2\sin^2\Theta + y'^2\cos^2\Theta + 2X'y'\cos\theta\sin\Theta$   
 $Xy = X'^2\cos\theta\sin\Theta - y'^2\cos\theta\sin\Theta + X'y'\cos^2\Theta - X'y'\sin^2\Theta$   
 $xy = x'^2\cos\theta\sin\Theta - y'^2\cos\theta\sin\Theta + X'y'\cos^2\Theta - X'y'\sin^2\Theta$   
 $xy = x'^2\cos\theta\sin\Theta - y'^2\cos\theta\sin\Theta + x'y'\cos^2\Theta - X'y'\sin^2\Theta$