Pop Quiz 6 - 22068205 2- Juan Maxwell Tanaya 1b, 4x2+y2+16x-4y-40=0 4(x2+4x)+(y2#8-4y)=40 4(x2+4x+4)+(y2-4y+4) = 40+16+4 4 (x2+2)2 + (y-2)2 = 2060 (x+2)2 + (y-2)2 = 1 -> Ellipse Vertical Titik Pusat = (-2,2) 4(15+2) Vertex Mayor = (0,415 +2) don (0, 2015+2) don (0; 115 Vertex Manor = (15-2,0) don (-VI5-2,0) Titil fokus = c2=a2-b2 C=60-15 12=45 C= 3V5 (0/ ±345) (-2,±3V5) 26, x2-16y2-4x+32y-59=0 (x2-4x)-16(42-24)=59 (x2-4x+4)-16 (y2-2y+1)=59+4-16 (x-2)2-16 (y-1)2=47 (x-2)2 - 16 (y-1)2 = 1 $\frac{(\chi-2)^2}{47} - \frac{(\chi-1)^2}{(\frac{47}{2})} = 1$ -> Hyperbola Horizontal - Asymptole = 9-1=±1/15 (x-2)

3a, 4x2-7xy =4y2-5x-15 4x2-7xy-4y2+5x+15=0 A= 4 (ot 20 = A-C 46.5x2-8xy+5y2-17=0 A=5 | P=0 B=-8 E=0 C= 5 | F=-17 Cot 20 = A-C $\begin{array}{c|c} \cot 2\theta = 0 & |\cos \theta = \frac{12}{2} - 7\cos^2\theta = \frac{1}{2} \\ 2\theta = 90^{\circ} & |\sin \theta = \frac{12}{2} - 7\sin^2\theta = \frac{1}{2} \\ \theta = 45^{\circ} & |\cos \theta = \frac{1}{2} - 7\sin^2\theta = \frac{1}{2} \end{array}$ $\begin{pmatrix} A' \\ B' \\ C' \end{pmatrix} = \begin{pmatrix} \cos^2\theta & \sin\theta \cos\theta & \sin^2\theta \\ 0 & 0 & 0 \\ \sin^2\theta & -\sin\theta \cos\theta & \cos^2\theta \end{pmatrix} \begin{pmatrix} A \\ B \\ C \end{pmatrix}$ A'= 2.5+ 2. -8+ 2.5 = 2045-4 C= 2.5+12.-8+ 1.5 = EGY 5+4 FIF u2 + 9v2-17=0 u2 + 9u2=17 42 + 42 = 17 -7 Ellipse Horizontal Vertex (+ (1) ,0) = 17-13 Vertex Minor = (0, ± + 117) C= (1)6

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