Grafica Komputer

M. Rizky Cavendio 2005/397011 Tugas Practic 2

* Transius: (-1,2) * Rotaii 65°
$\frac{(2.5)^{2}}{(2.5)^{2}} = \frac{(3)^{2}}{(1)^{2}} + \frac{(-1)^{2}}{(2)^{2}} = \frac{(-1)^{2}}{(3)^{2}} + \frac{(-1)^{2}}{(3)^{2}} = \frac{(-1)^{2}}{(3)^{2}} + \frac{(-1)^{2}}{(3)^{2$
b. $\begin{pmatrix} x' \\ y' \end{pmatrix} = \begin{pmatrix} 6 \\ 2 \end{pmatrix} + \begin{pmatrix} -4 \\ 2 \end{pmatrix} = \begin{pmatrix} 2 \\ 4 \end{pmatrix}$ $\begin{pmatrix} 0.1 & -0.9 \\ 1 & 0.9 & 0.4 \end{pmatrix} \begin{pmatrix} 3 \\ 1 & 2.7 + 0.1 \end{pmatrix} = \begin{pmatrix} 0.3 \\ 3.1 \end{pmatrix}$
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$\frac{d(x') = 0.4 - 0.9}{9.90.90.9} = \frac{2}{5} = \frac{0.8 - 4.5}{1.8 + 2} = \frac{-3.7}{3.0}$
* Skala (2,3) Pada Stik Pusat (6,2)
Skala $\begin{pmatrix} 2 & 0 \\ 0 & 3 \end{pmatrix}$ hik Posat $\begin{pmatrix} 4 \\ 6 \end{pmatrix}$ $\begin{pmatrix} 2 \\ 6 \end{pmatrix}$
$ \frac{\left(\frac{x'}{2}\right)^{2} \left(\frac{2}{3}\right) \left(\frac{x-a}{y-b}\right) + \left(\frac{a}{b}\right) }{\left(\frac{x}{2}\right)^{2} \left(\frac{x-a}{3}\right) + \left(\frac{a}{b}\right) } $
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ = \begin{pmatrix} 2 & 0 &   & -3 \\ 0 & 3 &   & -1 \end{pmatrix} + \begin{pmatrix} 6 \\ 2 \end{pmatrix} $ $ = \begin{pmatrix} 2 & 0 &   & 0 \\ 0 & 3 &   & 0 \end{pmatrix} + \begin{pmatrix} 6 \\ 2 \end{pmatrix} = \begin{pmatrix} 6 \\ 2 \end{pmatrix} $ $ = \begin{pmatrix} -6 \\ -3 \end{pmatrix} + \begin{pmatrix} 6 \\ 6 \end{pmatrix} = \begin{pmatrix} 0 \\ 2 \end{pmatrix} $
d. (x1) = (20) (7-6) + (8)
$\frac{C \cdot \left(\frac{x'}{y'}\right) = \left(\frac{20}{3}\right)\left(\frac{2-6}{5-2}\right) + \left(\frac{6}{2}\right)}{= \left(\frac{20}{3}\right)\left(\frac{1}{2}\right) + \left(\frac{6}{2}\right)}$
$= \begin{pmatrix} 2 & 0 &   -4 &   & 1 &   & 6 &   \\ 0 & 3 &   & 3 &   & 2 &   & 2 &   \\ & & & & & & & & & & & & & & & & &$
(g) 1(2) (11)