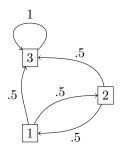
Obtain:

$$\int e^x \cos(x)$$

Obtain:

$$\lim_{x \to 1} \frac{x^4 - 1}{r^2 - 1}$$

What is the long run stationary distribution of the following discrete time Markov chain:



Minimize: 4x + 12y

subject to:

$$x \ge 0$$

$$y \ge 0$$

$$5x - y \ge 2$$

$$x+2y\leq 1$$

Obtain the mixed Nash equilibria for the following game:

$$\begin{pmatrix} 5, 6 & 1, 0 \\ 0, 1 & 6, 5 \end{pmatrix}$$