1. $\left(E A \lambda^{\prime}\right)^{\prime}=\left(E A u^{\prime}\right)^{\prime}$
2. varies linearly along the $x$-axis
3. Optimal area profile is independent of the load.
4. $\frac{\partial F}{\partial z}-\frac{d}{d x}\left(\frac{\partial F}{\partial z_{x}}\right)-\frac{d}{d y}\left(\frac{\partial F}{\partial z_{y}}\right)=0$
5. Poisson's Equation in 2D
6. Both design and adjoint equations.
7. All of the above

8 free-fixed
9. $\mathrm{F}=10^{*}$ ones $(\mathrm{n}+1,1)$
10. Numerically; using forward-difference.

