a) $\frac{1}{2} \cdot \sqrt{5}$
b) $\forall x \in X, \qquad \exists y \leq \epsilon$
c) $(p \to q) \land (p \to r) \vdash p \to q \land r$
d) $\cos(2\theta) = \cos^2(\theta) - \sin^2(\theta)$
e) $k_{k+1} = n^2 + k_n^2 - k_{n-1}$

$$Am, n = \begin{bmatrix} a_{1,1} & a_{1,2} & \dots & a_{1,n} \\ a_{2,1} & a_{2,2} & \dots & a_{2,n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{m,1} & a_{m,2} & \dots & a_{m,n} \end{bmatrix}$$

```
1    let timer = new System.Diagnostics.Stopwatch()
2    timer.Start()
3    let returnValue = f()
4    printfn "Elapsed Time: %i" timer.
         ElapsedMilliseconds
5    returnValue
```