Homework Section 2.1 - Due 8th Feb

Give all answers exactly.

1. If $0° < \theta < 90°$ and $\sin\theta = \frac{k}{2}$, then $\cos\theta =$?
2. $(\sin\theta + \cos\theta)^2 - 1 =$?
3. #4 on page 55.
4. #22 on page 56
5. #34 on page 56.
6. Suppose $0° < \theta < 90°$ and $\tan\theta = 1$, what is the angle θ? Compute $\sec(\theta + 15°)$.
7. #70 on page 57.
8. #76 on page 58. Hint: Calculate the "missing" angles first on the diagram, then treat as two separate right angle triangles to calculate sides.