6-4
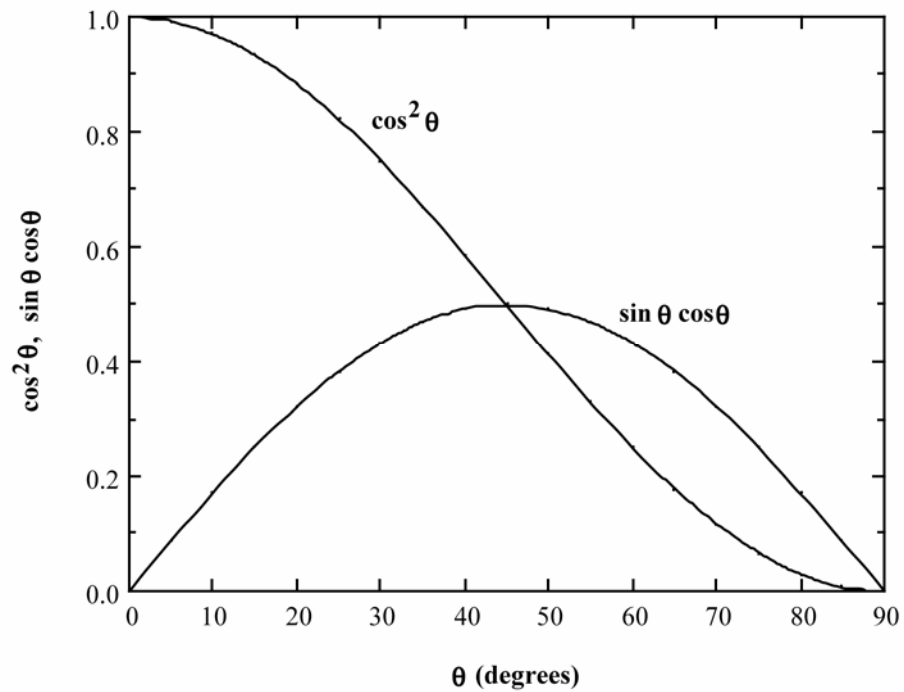
6.2 (a) Below are plotted curves of $\cos^2\theta$ (for σ') and $\sin\theta\cos\theta$ (for τ') versus θ.

(b) The maximum normal stress occurs at an inclination angle of 0°.

(c) The maximum shear stress occurs at an inclination angle of 45°.