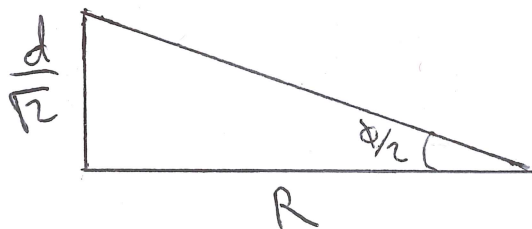
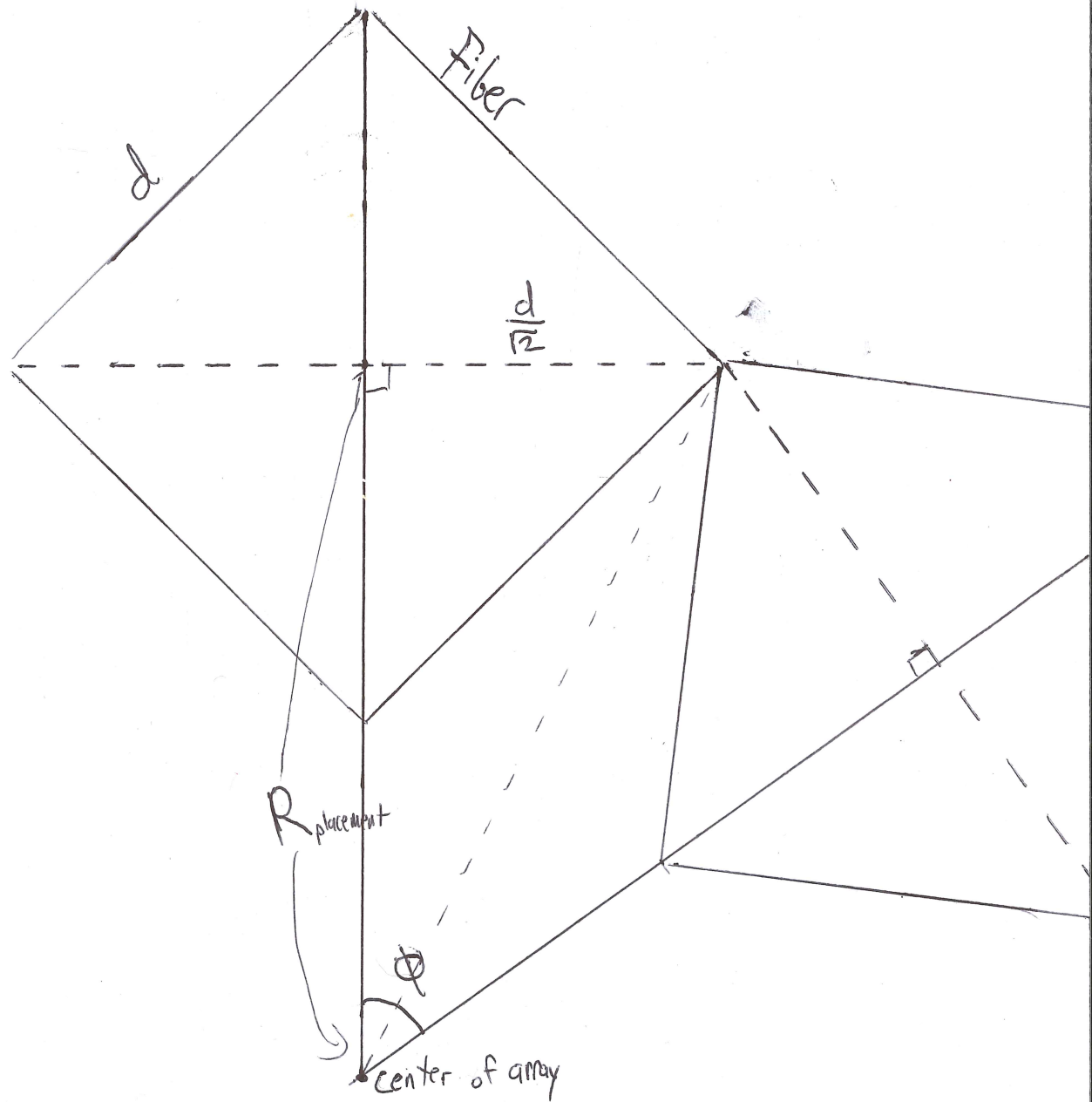


# Fiber Placement Derivation



$$\tan(\phi/2) = \frac{d}{\sqrt{2}R}$$

$$\phi = 2 \times \arctan\left(\frac{d}{\sqrt{2}R}\right)$$