$$\prod_{k=-4}^{4} \sqrt{36-k^2} + ik$$

$$= \left(\sqrt{36} + 0k\right) \cdot \prod_{\substack{k=-4 \\ k \neq 0}}^{k=4} \sqrt{36-k^2} + ik$$

$$= 6 \cdot \prod_{k=1}^{4} \left(\sqrt{36-k^2} + ik\right)\left(\sqrt{36-k^2} - ik\right)$$

$$\underbrace{(36-k^2) - ik\,(36-k^2) + ik\,(36-k^2) - i^2k^2}_{+k^2}$$

$$= 6 \cdot \qquad (36-1)(36-2)(36-3)(36-4)$$