1. Evaluate the double integral \( \int \int_D x + 2y \, dA \) over the region D which is bounded by the circle centered at the origin with radius 3.

**Solution:**

\[
\int \int_D x + 2y \, dA = \int_{-3}^{3} \left[ \int_{-\sqrt{9-x^2}}^{\sqrt{9-x^2}} x + 2y \, dy \right] \, dx
\]

\[
= \int_{-3}^{3} \left[ xy + y^2 \right]_{-\sqrt{9-x^2}}^{\sqrt{9-x^2}} \, dx
\]

\[
= \int_{-3}^{3} 2x\sqrt{9-x^2} \, dx
\]

\[= 0\]