$$\begin{split} z &= f(x,y) = \frac{10-2x-5y}{2} \text{ and } D \text{ is the disk } x^2+y^2 \leq \frac{16}{2} \text{ , so by formula} \\ A(S) &= \iint_D \sqrt{1+(-2)^2+(-5)^2} \, dA = \sqrt{30} \iint_D dA = \sqrt{30} \, A(D) \\ &= \sqrt{30} \left(\pi \cdot 4^2\right) = \frac{16}{2} \sqrt{30} \, \pi \ . \end{split}$$