(14) $x+2y+3z=1$ $\quad x^2+y^2=3$

$r^2=3$

$r\in[0,\sqrt{3})$

$z=\frac{1}{3}(1-x-2y)$

$\frac{dz}{dx}=-\frac{1}{3}\quad\frac{dz}{dy}=-\frac{2}{3}$

$$\text{Area}=\sqrt{1+\frac{1}{9}+\frac{4}{9}}=\sqrt{\frac{14}{9}}=\frac{\sqrt{14}}{3}$$

$$A(S)=\iint_D \frac{\sqrt{14}}{3}\,dA=\frac{\sqrt{14}}{3}\iint_D dA=\frac{\sqrt{14}}{3}\left(\pi(\sqrt{3})^2\right)$$

$$=\frac{\sqrt{14}}{3}(3\pi)=\boxed{\pi\sqrt{14}}$$