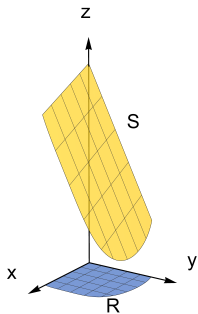## Surface Area

Question

The figure shows a surface S lying in the plane $x - 4y + 2z = 8$ with shadow R in the xy-plane. Which formula is correct?

A. $\text{Area}(S) = \frac{\sqrt{21}}{2}\text{Area}(R)$

B. $\text{Area}(S) = 3\sqrt{2}\text{Area}(R)$

C. $\text{Area}(S) = \sqrt{21}\text{Area}(R)$

D. $\text{Area}(S) = \text{Area}(R)$