

Jessica Bello Quiz 22

$$z = g = 1 - x^2 - y^2$$

$$S \text{ S U } (-v \frac{dg}{dx} - w \frac{dg}{dy} + k) dA$$

$$S \text{ S }_0 (-x y \cdot -2x) - (y z \cdot -2y) + 2\lambda = 2x^2 y + 2y^2 z + 2x - 0 -$$
$$S \text{ S U } 2\lambda \frac{dg}{dy} + (2y^2 + x) z$$

$$S \text{ S }_0 2x^2 y + (2y^2 + x)(1 - x^2 - y^2)$$

$$D \{ (x, y) \mid 0 < x < 1, 0 < y < 1 \}$$

$$\text{maple} = 83/180$$