Task 2

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G_1 intersects with S_1 and S_2:

$\text{Area}(S_1) = 3$, $\text{Area}(S_4) = 3$

$\text{Area}(G_1) = 4$

$\text{UE}(G_1) = \frac{[\text{Area}(S_1)+\text{Area}(S_2)]-\text{Area}(G_1)}{\text{Area}(G_1)} = \frac{(3+3)-4}{4} = \frac{2}{4} = 0.5$

G_2 matches S_3 perfectly:

$\text{Area}(S_3) = 2$

$\text{Area}(G_2) = 2$

$\text{UE}(G_2) = \frac{[\text{Area}(S_3)]-\text{Area}(G_2)}{\text{Area}(G_2)} = \frac{(2)-2}{2} = \frac{0}{2} = 0$