

$$\int 3 \operatorname{sen}(5x+2) dx =$$

INT-S1-033

SOSTITUZIONE: $5x+2 = z$

$$x = \frac{1}{5}z - \frac{2}{5}$$

$$x' = \frac{dx}{dz} = \frac{1}{5}$$

$$dx = \frac{1}{5} dz$$

$$= 3 \int (\operatorname{sen} z) \cdot \frac{1}{5} dz =$$

$$= \frac{3}{5} \int \operatorname{sen} z dz =$$

$$= -\frac{3}{5} \cos z + k =$$

$$= \boxed{-\frac{3}{5} \cos(5x+2) + k}$$