

$$m = \{\{2, 2/3, 2/5\}, \{2/3, 2/5, 2/7\}, \{2/5, 2/7, 2/9\}\}$$

$$\left\{ \left\{ 2, \frac{2}{3}, \frac{2}{5} \right\}, \left\{ \frac{2}{3}, \frac{2}{5}, \frac{2}{7} \right\}, \left\{ \frac{2}{5}, \frac{2}{7}, \frac{2}{9} \right\} \right\}$$

$$n = \{\text{Integrate}[1/(1 + 25x^2), \{x, -1, 1\}],$$

$$\text{Integrate}[x^2/(1 + 25x^2), \{x, -1, 1\}],$$

$$\text{Integrate}[x^4/(1 + 25x^2), \{x, -1, 1\}]\}$$

$$\left\{ \frac{2\text{ArcTan}[5]}{5}, -\frac{2}{125}(-5 + \text{ArcTan}[5]), \frac{220+6\text{ArcTan}[5]}{9375} \right\}$$

$$\text{Solve}[m.\{a, b, c\} == n, \{a, b, c\}]$$

$$\left\{ \left\{ a \rightarrow \frac{3(-1610+2797\text{ArcTan}[5])}{10000}, b \rightarrow -\frac{21(-180+211\text{ArcTan}[5])}{1000}, c \rightarrow \frac{21(-370+399\text{ArcTan}[5])}{2000} \right\} \right\}$$