

3.60
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$$T_4 = 5T_2 \rightarrow \binom{n}{3} = 5 \binom{n}{1} \rightarrow \frac{n(n-1)(n-2)}{6} = 5n$$
$$n^2 - 3n - 28 = 0 \rightarrow n_1 = 7 \quad n_2 = 4$$

$$20n = \binom{n}{3} 2^{\frac{n-1}{2}} (7-3) \cdot 2^{-\frac{n}{3} \cdot 3} =$$

$$140 = 35 \cdot 2^{n-2}$$

$$4 = 2^{n-2} \rightarrow \boxed{x=4}$$