

3.100
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$$T_1 + T_2 + T_3 = 79$$

$$1 + n + \frac{n(n+1)}{2} = 79 \rightarrow n^2 + n - 156 = 0$$

$$n = 13, n = 12$$

$$T_{k+1} = \binom{12}{k} \left(a \frac{1}{b}\right)^{12-k} a^{-\frac{28}{75}k}$$

$$a^0: a^0 = a^{16 - \frac{1}{3}k - \frac{28}{75}k}$$

$$0 = 16 - 3\frac{1}{3}k \rightarrow \boxed{k=5}$$

$$T_6 = \binom{12}{5} \frac{1}{b^7} = 792b^{-7}$$

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