

43
2

$$\frac{14}{3} = \frac{T_5}{T_3} \rightarrow 14 \binom{n}{2} = 3 \binom{n}{4} \rightarrow 14 \frac{n(n-1)}{2} = \frac{3(n)(n-1)(n-2)(n-3)}{24}$$

$$168 = 3n^2 - 15n + 18 \rightarrow n = 5, n = 10$$

$$T_{5+1} = \binom{10}{5} (\sqrt{3}a^2)^5 \left(-\frac{a^2}{\sqrt{3}}\right)^5 =$$

$$= -252 \cdot 3^{2.5} \cdot a^{-10} \cdot a^{-2} \cdot 0.5 = -252 \cdot 9 \cdot a^{-12}$$

10th term is $10 \cdot 2 = 20$