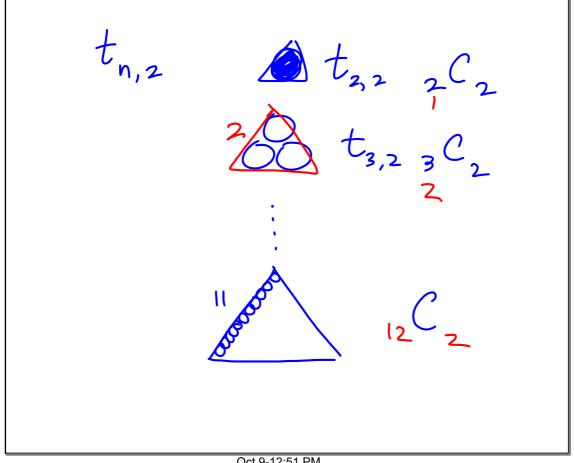


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$$(a+b)^{6} \quad a^{6}, a^{5}b^{1}, a^{4}b^{2}, a^{3}b^{3}, a^{2}b^{4},$$

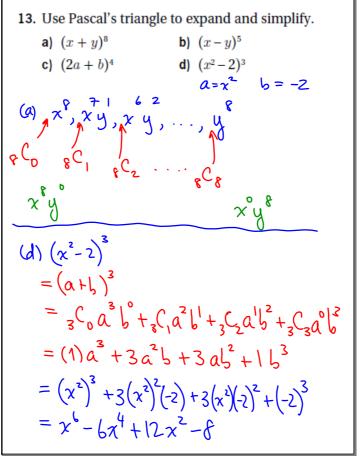
$$= C_{0}a^{6} \quad a^{6}b^{5}, a^{9}b^{6}$$

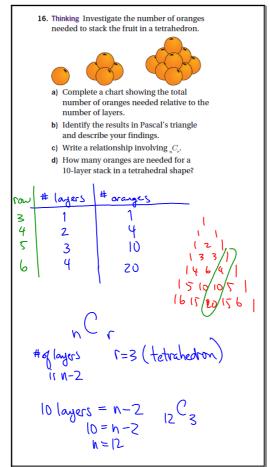
$$+ C_{1}a^{5}b + C_{2}a^{4}b^{2}$$

$$+ C_{3}a^{3}b^{3} + C_{4}a^{2}b^{4}$$

$$+ C_{5}a^{5}b^{5} + C_{6}b^{6}$$

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18. Thinking Explain how $(h + t)^5$ could be used to show the different combinations of heads and tails when a coin is tossed repeatedly.

$$(h+t)^{5} = 1h^{5} + \dots + 1t^{5}$$

$$(h+t)^{5} = 1h^{5} + \dots + 1t^{5}$$

$$= 1h^{5} + 5h^{4}t + 10h^{3}t^{2} + 10h^{2}t^{3} + 5ht^{4} + 1t^{5}$$