

**[12-05-22-T11]**  
*Binomial Thm*

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■ A

[1] Expand  $(1 + x^2)^5$

[2] Use the first four terms of the expansion of  $(1 + 2x)^9$  to estimate the value of  $(1.09)^9$ . Compare your approximation to this to the value shown on your calculator for  $(1.09)^9$ .