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In probability and statistics, an elliptical distribution is any member of a broad family of probability distributions that generalize the multivariate normal distribution. Intuitively, in the simplified two and three dimensional case, the joint distribution forms an ellipse and an ellipsoid, respectively, in iso-density plots.

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From the instantaneous position $r = r(t)$, instantaneous meaning at an instant value of time t , the instantaneous velocity $v = v(t)$ and acceleration $a = a(t)$ have the general, coordinate-independent definitions; $\dot{r} = v$, $\dot{v} = a$. Notice that velocity always points in the direction of motion, in other words for a curved path it is the tangent vector. Loosely speaking, first order derivatives are related to ...

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Equations of motion - Wikipedia
We are talking about the trigonometric identities in particular to the Pythagorean identities for (tan) and (cot) of (theta), and (sec) and (cosec). 0000 Here we are being asked to prove the identity $(\cot)^2 + 1 = (\operatorname{cosec})^2$. 0012 The trick there is to remember the original Pythagorean identity. 0020 Let me write that down to start with, $\sin^2 x + \cos^2 x = 1$, that is the original Pythagorean ...

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Abstract. We establish an improvement of Bernstein-Jackson inequalities by explicitly calculating constants on special approximation scales of analytic vectors of finite exponential types, generated by unbounded operators.

Elliptical distribution - Wikipedia
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10. [Identity Tan(squared)x+1=Sec(squared)x ... - Educator
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First, let's examine what matrices "really are": When you multiply a matrix by the coordinates of a point, it gives you the coordinates of a new point. In this way, we can think of a matrix as a transformation which turns points in space into diff...

Nelson Calculus And Vectors 12
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Operations Research - KSU
This page intentionally left blank R E F E R E N C E PA G E S Cut here and keep for reference ALGEBRA GEOMETRY Arithmetic Operations Geometric Formulas $a^2 + b^2 = c^2$ $a^2 - b^2 = (a+b)(a-b)$ $(a+b)^2 = a^2 + 2ab + b^2$ $(a-b)^2 = a^2 - 2ab + b^2$ $(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$ $(a-b+c)^2 = a^2 + b^2 + c^2 - 2ab + 2bc - 2ca$ $(a+b)(a-b) = a^2 - b^2$ $(a+b)(a^2 - ab + b^2) = a^3 + b^3$ $(a-b)(a^2 + ab + b^2) = a^3 - b^3$ $(a+b)(a^2 + ab^2 + ab^2 + b^3) = a^4 + b^4$ $(a-b)(a^3 + a^2b + ab^2 + b^3) = a^4 - b^4$ $(a+b)(a^3 - a^2b + ab^2 - b^3) = a^4 - b^4$ $(a-b)(a^3 - a^2b - ab^2 + b^3) = a^4 - b^4$ $(a+b)(a^4 - a^3b + a^2b^2 - ab^3 + b^4) = a^5 + b^5$ $(a-b)(a^4 + a^3b + a^2b^2 + ab^3 + b^4) = a^5 - b^5$ $(a+b)(a^4 - a^3b - a^2b^2 + ab^3 - b^4) = a^5 - b^5$ $(a-b)(a^4 + a^3b - a^2b^2 - ab^3 + b^4) = a^5 - b^5$ $(a+b)(a^5 - a^4b + a^3b^2 - a^2b^3 + ab^4 - b^5) = a^6 + b^6$ $(a-b)(a^5 + a^4b + a^3b^2 + a^2b^3 + ab^4 + b^5) = a^6 - b^6$ $(a+b)(a^5 - a^4b - a^3b^2 + a^2b^3 - ab^4 + b^5) = a^6 - b^6$ $(a-b)(a^5 + a^4b - a^3b^2 - a^2b^3 + ab^4 - b^5) = a^6 - b^6$ $(a+b)(a^6 - a^5b + a^4b^2 - a^3b^3 + a^2b^4 - ab^5 + b^6) = a^7 + b^7$ $(a-b)(a^6 + a^5b + a^4b^2 + a^3b^3 + a^2b^4 + ab^5 + b^6) = a^7 - b^7$ $(a+b)(a^6 - a^5b - a^4b^2 + a^3b^3 - a^2b^4 + ab^5 - b^6) = a^7 - b^7$ $(a-b)(a^6 + a^5b - a^4b^2 - a^3b^3 + a^2b^4 - ab^5 + b^6) = a^7 - b^7$ $(a+b)(a^7 - a^6b + a^5b^2 - a^4b^3 + a^3b^4 - a^2b^5 + ab^6 - b^7) = a^8 + b^8$ $(a-b)(a^7 + a^6b + a^5b^2 + a^4b^3 + a^3b^4 + a^2b^5 + ab^6 + b^7) = a^8 - b^8$ $(a+b)(a^7 - a^6b - a^5b^2 + a^4b^3 - a^3b^4 + a^2b^5 - ab^6 + b^7) = a^8 - b^8$ $(a-b)(a^7 + a^6b - a^5b^2 - a^4b^3 + a^3b^4 - a^2b^5 + ab^6 - b^7) = a^8 - b^8$ $(a+b)(a^8 - a^7b + a^6b^2 - a^5b^3 + a^4b^4 - a^3b^5 + a^2b^6 - ab^7 + b^8) = a^9 + b^9$ $(a-b)(a^8 + a^7b + a^6b^2 + a^5b^3 + a^4b^4 + a^3b^5 + a^2b^6 + ab^7 + b^8) = a^9 - b^9$ $(a+b)(a^8 - a^7b - a^6b^2 + a^5b^3 - a^4b^4 + a^3b^5 - a^2b^6 + ab^7 - b^8) = a^9 - b^9$ $(a-b)(a^8 + a^7b - a^6b^2 - a^5b^3 + a^4b^4 - a^3b^5 + a^2b^6 - ab^7 + b^8) = a^9 - b^9$ $(a+b)(a^9 - a^8b + a^7b^2 - a^6b^3 + a^5b^4 - a^4b^5 + a^3b^6 - a^2b^7 + ab^8 - b^9) = a^{10} + b^{10}$ $(a-b)(a^9 + a^8b + a^7b^2 + a^6b^3 + a^5b^4 + a^4b^5 + a^3b^6 + a^2b^7 + ab^8 + b^9) = a^{10} - b^{10}$ $(a+b)(a^9 - a^8b - a^7b^2 + a^6b^3 - a^5b^4 + a^4b^5 - a^3b^6 + a^2b^7 - ab^8 + b^9) = a^{10} - b^{10}$ $(a-b)(a^9 + a^8b - a^7b^2 - a^6b^3 + a^5b^4 - a^4b^5 + a^3b^6 - a^2b^7 + ab^8 - b^9) = a^{10} - b^{10}$ $(a+b)(a^{10} - a^9b + a^8b^2 - a^7b^3 + a^6b^4 - a^5b^5 + a^4b^6 - a^3b^7 + a^2b^8 - ab^9 + b^{10}) = a^{11} + b^{11}$ $(a-b)(a^{10} + a^9b + a^8b^2 + a^7b^3 + a^6b^4 + a^5b^5 + a^4b^6 + a^3b^7 + a^2b^8 + ab^9 + b^{10}) = a^{11} - b^{11}$ $(a+b)(a^{10} - a^9b - a^8b^2 + a^7b^3 - a^6b^4 + a^5b^5 - a^4b^6 + a^3b^7 - a^2b^8 + ab^9 - b^{10}) = a^{11} - b^{11}$ $(a-b)(a^{10} + a^9b - a^8b^2 - a^7b^3 + a^6b^4 - a^5b^5 + a^4b^6 - a^3b^7 + a^2b^8 - ab^9 + b^{10}) = a^{11} - b^{11}$ $(a+b)(a^{11} - a^{10}b + a^9b^2 - a^8b^3 + a^7b^4 - a^6b^5 + a^5b^6 - a^4b^7 + a^3b^8 - a^2b^9 + ab^{10} - b^{11}) = a^{12} + b^{12}$ $(a-b)(a^{11} + a^{10}b + a^9b^2 + a^8b^3 + a^7b^4 + a^6b^5 + a^5b^6 + a^4b^7 + a^3b^8 + a^2b^9 + ab^{10} + b^{11}) = a^{12} - b^{12}$ $(a+b)(a^{11} - a^{10}b - a^9b^2 + a^8b^3 - a^7b^4 + a^6b^5 - a^5b^6 + a^4b^7 - a^3b^8 + a^2b^9 - ab^{10} + b^{11}) = a^{12} - b^{12}$ $(a-b)(a^{11} + a^{10}b - a^9b^2 - a^8b^3 + a^7b^4 - a^6b^5 + a^5b^6 - a^4b^7 + a^3b^8 - a^2b^9 + ab^{10} - b^{11}) = a^{12} - b^{12}$ $(a+b)(a^{12} - a^{11}b + a^{10}b^2 - a^9b^3 + a^8b^4 - a^7b^5 + a^6b^6 - a^5b^7 + a^4b^8 - a^3b^9 + a^2b^{10} - ab^{11} + b^{12}) = a^{13} + b^{13}$ $(a-b)(a^{12} + a^{11}b + a^{10}b^2 + a^9b^3 + a^8b^4 + a^7b^5 + a^6b^6 + a^5b^7 + a^4b^8 + a^3b^9 + a^2b^{10} + ab^{11} + b^{12}) = a^{13} - b^{13}$ $(a+b)(a^{12} - a^{11}b - a^{10}b^2 + a^9b^3 - a^8b^4 + a^7b^5 - a^6b^6 + a^5b^7 - a^4b^8 + a^3b^9 - a^2b^{10} + ab^{11} - b^{12}) = a^{13} - b^{13}$ $(a-b)(a^{12} + a^{11}b - a^{10}b^2 - a^9b^3 + a^8b^4 - a^7b^5 + a^6b^6 - a^5b^7 + a^4b^8 - a^3b^9 + a^2b^{10} - ab^{11} + b^{12}) = a^{13} - b^{13}$ $(a+b)(a^{13} - a^{12}b + a^{11}b^2 - a^{10}b^3 + a^9b^4 - a^8b^5 + a^7b^6 - a^6b^7 + a^5b^8 - a^4b^9 + a^3b^{10} - a^2b^{11} + ab^{12} - b^{13}) = a^{14} + b^{14}$ $(a-b)(a^{13} + a^{12}b + a^{11}b^2 + a^{10}b^3 + a^9b^4 + a^8b^5 + a^7b^6 + a^6b^7 + a^5b^8 + a^4b^9 + a^3b^{10} + a^2b^{11} + ab^{12} + b^{13}) = a^{14} - b^{14}$ $(a+b)(a^{13} - a^{12}b - a^{11}b^2 + a^{10}b^3 - a^9b^4 + a^8b^5 - a^7b^6 + a^6b^7 - a^5b^8 + a^4b^9 - a^3b^{10} + a^2b^{11} - ab^{12} + b^{13}) = a^{14} - b^{14}$ $(a-b)(a^{13} + a^{12}b - a^{11}b^2 - a^{10}b^3 + a^9b^4 - a^8b^5 + a^7b^6 - a^6b^7 + a^5b^8 - a^4b^9 + a^3b^{10} - a^2b^{11} + ab^{12} - b^{13}) = a^{14} - b^{14}$ $(a+b)(a^{14} - a^{13}b + a^{12}b^2 - a^{11}b^3 + a^{10}b^4 - a^9b^5 + a^8b^6 - a^7b^7 + a^6b^8 - a^5b^9 + a^4b^{10} - a^3b^{11} + a^2b^{12} - ab^{13} + b^{14}) = a^{15} + b^{15}$ $(a-b)(a^{14} + a^{13}b + a^{12}b^2 + a^{11}b^3 + a^{10}b^4 + a^9b^5 + a^8b^6 + a^7b^7 + a^6b^8 + a^5b^9 + a^4b^{10} + a^3b^{11} + a^2b^{12} + ab^{13} + b^{14}) = a^{15} - 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a^{14}b^3 + a^{13}b^4 - a^{12}b^5 + a^{11}b^6 - a^{10}b^7 + a^9b^8 - a^8b^9 + a^7b^{10} - a^6b^{11} + a^5b^{12} - a^4b^{13} + a^3b^{14} - a^2b^{15} + ab^{16} - b^{17}) = a^{18} + b^{18}$ $(a-b)(a^{17} + a^{16}b + a^{15}b^2 + a^{14}b^3 + a^{13}b^4 + a^{12}b^5 + a^{11}b^6 + a^{10}b^7 + a^9b^8 + a^8b^9 + a^7b^{10} + a^6b^{11} + a^5b^{12} + a^4b^{13} + a^3b^{14} + a^2b^{15} + ab^{16} + b^{17}) = a^{18} - b^{18}$ $(a+b)(a^{17} - a^{16}b - a^{15}b^2 + a^{14}b^3 - a^{13}b^4 + a^{12}b^5 - a^{11}b^6 + a^{10}b^7 - a^9b^8 + a^8b^9 - a^7b^{10} + a^6b^{11} - a^5b^{12} + a^4b^{13} - a^3b^{14} + a^2b^{15} - ab^{16} + b^{17}) = a^{18} - b^{18}$ $(a-b)(a^{17} + a^{16}b - a^{15}b^2 - a^{14}b^3 + a^{13}b^4 - a^{12}b^5 + a^{11}b^6 - a^{10}b^7 + a^9b^8 - a^8b^9 + a^7b^{10} - a^6b^{11} + a^5b^{12} - a^4b^{13} + a^3b^{14} - a^2b^{15} + ab^{16} - b^{17}) = a^{18} - b^{18}$ $(a+b)(a^{18} - a^{17}b + a^{16}b^2 - a^{15}b^3 + a^{14}b^4 - a^{13}b^5 + a^{12}b^6 - a^{11}b^7 + a^{10}b^8 - a^9b^9 + a^8b^{10} - a^7b^{11} + a^6b^{12} - a^5b^{13} + a^4b^{14} - a^3b^{15} + a^2b^{16} - ab^{17} + b^{18}) = a^{19} + b^{19}$ $(a-b)(a^{18} + a^{17}b + a^{16}b^2 + a^{15}b^3 + a^{14}b^4 + a^{13}b^5 + a^{12}b^6 + a^{11}b^7 + a^{10}b^8 + a^9b^9 + a^8b^{10} + a^7b^{11} + a^6b^{12} + a^5b^{13} + a^4b^{14} + a^3b^{15} + a^2b^{16} + ab^{17} + b^{18}) = a^{19} - b^{19}$ $(a+b)(a^{18} - a^{17}b - a^{16}b^2 + a^{15}b^3 - a^{14}b^4 + a^{13}b^5 - a^{12}b^6 + a^{11}b^7 - a^{10}b^8 + a^9b^9 - a^8b^{10} + a^7b^{11} - a^6b^{12} + a^5b^{13} - a^4b^{14} + a^3b^{15} - a^2b^{16} + ab^{17} - b^{18}) = a^{19} - b^{19}$ $(a-b)(a^{18} + a^{17}b - a^{16}b^2 - a^{15}b^3 + a^{14}b^4 - a^{13}b^5 + a^{12}b^6 - a^{11}b^7 + a^{10}b^8 - a^9b^9 + a^8b^{10} - a^7b^{11} + a^6b^{12} - a^5b^{13} + a^4b^{14} - a^3b^{15} + a^2b^{16} - ab^{17} + b^{18}) = a^{19} - b^{19}$ $(a+b)(a^{19} - a^{18}b + a^{17}b^2 - a^{16}b^3 + a^{15}b^4 - a^{14}b^5 + a^{13}b^6 - a^{12}b^7 + a^{11}b^8 - a^{10}b^9 + a^9b^{10} - a^8b^{11} + a^7b^{12} - a^6b^{13} + a^5b^{14} - a^4b^{15} + a^3b^{16} - a^2b^{17} + ab^{18} - b^{19}) = a^{20} + b^{20}$ $(a-b)(a^{19} + a^{18}b + a^{17}b^2 + a^{16}b^3 + a^{15}b^4 + a^{14}b^5 + a^{13}b^6 + a^{12}b^7 + a^{11}b^8 + a^{10}b^9 + a^9b^{10} + a^8b^{11} + a^7b^{12} + a^6b^{13} + a^5b^{14} + a^4b^{15} + a^3b^{16} + a^2b^{17} + ab^{18} + b^{19}) = a^{20} - b^{20}$ $(a+b)(a^{19} - a^{18}b - a^{17}b^2 + a^{16}b^3 - a^{15}b^4 + a^{14}b^5 - a^{13}b^6 + a^{12}b^7 - a^{11}b^8 + a^{10}b^9 - a^9b^{10} + a^8b^{11} - a^7b^{12} + a^6b^{13} - a^5b^{14} + a^4b^{15} - a^3b^{16} + a^2b^{17} - ab^{18} + b^{19}) = a^{20} - b^{20}$ $(a-b)(a^{19} + a^{18}b - a^{17}b^2 - a^{16}b^3 + a^{15}b^4 - a^{14}b^5 + a^{13}b^6 - a^{12}b^7 + a^{11}b^8 - a^{10}b^9 + a^9b^{10} - a^8b^{11} + a^7b^{12} - a^6b^{13} + a^5b^{14} - a^4b^{15} + a^3b^{16} - a^2b^{17} + ab^{18} - b^{19}) = a^{20} - b^{20}$ $(a+b)(a^{20} - a^{19}b + a^{18}b^2 - a^{17}b^3 + a^{16}b^4 - a^{15}b^5 + a^{14}b^6 - a^{13}b^7 + a^{12}b^8 - a^{11}b^9 + a^{10}b^{10} - a^9b^{11} + a^8b^{12} - a^7b^{13} + a^6b^{14} - a^5b^{15} + a^4b^{16} - a^3b^{17} + a^2b^{18} - ab^{19} + b^{20}) = a^{21} + b^{21}$ $(a-b)(a^{20} + a^{19}b + a^{18}b^2 + a^{17}b^3 + a^{16}b^4 + a^{15}b^5 + a^{14}b^6 + a^{13}b^7 + a^{12}b^8 + a^{11}b^9 + a^{10}b^{10} + a^9b^{11} + a^8b^{12} + a^7b^{13} + a^6b^{14} + a^5b^{15} + a^4b^{16} + a^3b^{17} + a^2b^{18} + ab^{19} + b^{20}) = a^{21} - b^{21}$ $(a+b)(a^{20} - a^{19}b - a^{18}b^2 + a^{17}b^3 - a^{16}b^4 + a^{15}b^5 - a^{14}b^6 + a^{13}b^7 - a^{12}b^8 + a^{11}b^9 - a^{10}b^{10} + a^9b^{11} - a^8b^{12} + a^7b^{13} - a^6b^{14} + a^5b^{15} - a^4b^{16} + a^3b^{17} - a^2b^{18} + ab^{19} - b^{20}) = a^{21} - b^{21}$ $(a-b)(a^{20} + a^{19}b - a^{18}b^2 - a^{17}b^3 + a^{16}b^4 - a^{15}b^5 + a^{14}b^6 - a^{13}b^7 + a^{12}b^8 - a^{11}b^9 + a^{10}b^{10} - a^9b^{11} + a^8b^{12} - a^7b^{13} + a^6b^{14} - a^5b^{15} + a^4b^{16} - a^3b^{17} + a^2b^{18} - ab^{19} + b^{20}) = a^{21} - b^{21}$ $(a+b)(a^{21} - a^{20}b + a^{19}b^2 - a^{18}b^3 + a^{17}b^4 - a^{16}b^5 + a^{15}b^6 - a^{14}b^7 + a^{13}b^8 - a^{12}b^9 + a^{11}b^{10} - a^{10}b^{11} + a^9b^{12} - a^8b^{13} + a^7b^{14} - a^6b^{15} + a^5b^{16} - a^4b^{17} + a^3b^{18} - a^2b^{19} + ab^{20} - b^{21}) = a^{22} + b^{22}$ $(a-b)(a^{21} + a^{20}b + a^{19}b^2 + a^{18}b^3 + a^{17}b^4 + a^{16}b^5 + a^{15}b^6 + a^{14}b^7 + a^{13}b^8 + a^{12}b^9 + a^{11}b^{10} + a^{10}b^{11} + a^9b^{12} + a^8b^{13} + a^7b^{14} + a^6b^{15} + a^5b^{16} + a^4b^{17} + a^3b^{18} + a^2b^{19} + ab^{20} + b^{21}) = a^{22} - b^{22}$ $(a+b)(a^{21} - a^{20}b - a^{19}b^2 + a^{18}b^3 - a^{17}b^4 + a^{16}b^5 - a^{15}b^6 + a^{14}b^7 - a^{13}b^8 + a^{12}b^9 - a^{11}b^{10} + a^{10}b^{11} - a^9b^{12} + a^8b^{13} - a^7b^{14} + a^6b^{15} - a^5b^{16} + a^4b^{17} - a^3b^{18} + a^2b^{19} - ab^{20} + b^{21}) = a^{22} - b^{22}$ $(a-b)(a^{21} + a^{20}b - a^{19}b^2 - a^{18}b^3 + a^{17}b^4 - a^{16}b^5 + a^{15}b^6 - a^{14}b^7 + a^{13}b^8 - a^{12}b^9 + a^{11}b^{10} - a^{10}b^{11} + a^9b^{12} - a^8b^{13} + a^7b^{14} - a^6b^{15} + a^5b^{16} - a^4b^{17} + a^3b^{18} - a^2b^{19} + ab^{20} - b^{21}) = a^{22} - b^{22}$ $(a+b)(a^{22} - a^{21}b + a^{20}b^2 - a^{19}b^3 + a^{18}b^4 - a^{17}b^5 + a^{16}b^6 - a^{15}b^7 + a^{14}b^8 - a^{13}b^9 + a^{12}b^{10} - a^{11}b^{11} + a^{10}b^{12} - a^9b^{13} + a^8b^{14} - a^7b^{15} + a^6b^{16} - a^5b^{17} + a^4b^{18} - a^3b^{19} + a^2b^{20} - ab^{21} + b^{22}) = a^{23} + b^{23}$ $(a-b)(a^{22} + a^{21}b + a^{20}b^2 + a^{19}b^3 + a^{18}b^4 + a^{17}b^5 + a^{16}b^6 + a^{15}b^7 + a^{14}b^8 + a^{13}b^9 + a^{12}b^{10} + a^{11}b^{11} + a^{10}b^{12} + a^9b^{13} + a^8b^{14} + a^7b^{15} + a^6b^{16} + a^5b^{17} + a^4b^{18} + a^3b^{19} + a^2b^{20} + ab^{21} + b^{22}) = a^{23} - b^{23}$ $(a+b)(a^{22} - a^{21}b - a^{20}b^2 + a^{19}b^3 - a^{18}b^4 + a^{17}b^5 - a^{16}b^6 + a^{15}b^7 - a^{14}b^8 + a^{13}b^9 - a^{12}b^{10} + a^{11}b^{11} - a^{10}b^{12} + a^9b^{13} - a^8b^{14} + a^7b^{15} - a^6b^{16} + a^5b^{17} - a^4b^{18} + a^3b^{19} - a^2b^{20} + ab^{21} - b^{22}) = a^{23} - b^{23}$ $(a-b)(a^{22} + a^{21}b - a^{20}b^2 - a^{19}b^3 + a^{18}b^4 - a^{17}b^5 + a^{16}b^6 - a^{15}b^7 + a^{14}b^8 - a^{13}b^9 + a^{12}b^{10} - a^{11}b^{11} + a^{10}b^{12} - a^9b^{13} + a^8b^{14} - a^7b^{15} + a^6b^{16} - a^5b^{17} + a^4b^{18} - a^3b^{19} + a^2b^{20} - ab^{21} + b^{22}) = a^{23} - b^{23}$ $(a+b)(a^{23} - a^{22}b + a^{21}b^2 - a^{20}b^3 + a^{19}b^4 - a^{18}b^5 + a^{17}b^6 - a^{16}b^7 + a^{15}b^8 - a^{14}b^9 + a^{13}b^{10} - a^{12}b^{11} + a^{11}b^{12} - a^{10}b^{13} + a^9b^{14} - a^8b^{15} + a^7b^{16} - a^6b^{17} + a^5b^{18} - a^4b^{19} + a^3b^{20}$