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Ex.6 Find the equation of the tangent to the circle $x^2 + y^2 = 5$ at $(1, -2)$. Verify that this line also touches the circle $x^2 + y^2 - 8x + 6y + 20 = 0$. Find also the point of contact.

Ex.7 Find, $f(A)$, if $A = \begin{pmatrix} -1 & 2 & -2 \\ 4 & -3 & 4 \\ 4 & -4 & 5 \end{pmatrix}$ and $f(x) = \frac{x}{x^2 - 1}$

Ex.8 $B = \begin{pmatrix} 5 - \lambda & 7 & -5 \\ 0 & 4 - \lambda & -1 \\ 2 & 8 & -3 - \lambda \end{pmatrix}$

- (i) Find the determinant of the matrix B.
- (ii) Given that $f(\lambda)$ (the determinant of B) satisfies the equation $f(A) = 0$, find the inverse of A.



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