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And  $A$  is the Area Of The Element  $E$ , i.e.,  $2A = \frac{1}{2} \begin{vmatrix} x_1 & y_1 & 1 \\ x_2 & y_2 & 1 \\ x_3 & y_3 & 1 \end{vmatrix} = \frac{1}{2} (x_1 y_2 - x_2 y_1) + (x_3 y_1 - x_1 y_3) + (x_2 y_3 - x_3 y_2)$  Or  $A = \frac{1}{2} [(x_2 - x_1)(y_3 - y_1) - (x_3 - x_1)(y_2 - y_1)]$  (6.9) The Value Of  $A$  Is Positive If The Nodes Are Numbered Counterclockwise (starting From Any Node)

As Shown By The Arrow In Fig. 6.3. Note That Eq. (6.7) Gives The Potent Feb 3th, 2024

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