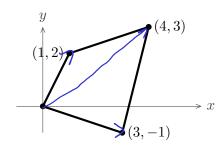
Determinants and areas

1. a) Compute
$$\begin{vmatrix} 1 & 2 \\ 3 & 4 \end{vmatrix}$$
. = $4-6 = -2$

b) Compute
$$\begin{vmatrix} 1 & -2 \\ -3 & 4 \end{vmatrix}$$
. $= 4-6=-2$

c) Compute
$$\begin{vmatrix} 3 & 4 \\ 1 & 2 \end{vmatrix}$$
. = $6 - 4 = 2$

2. Find the area of the quadrilateral shown.



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