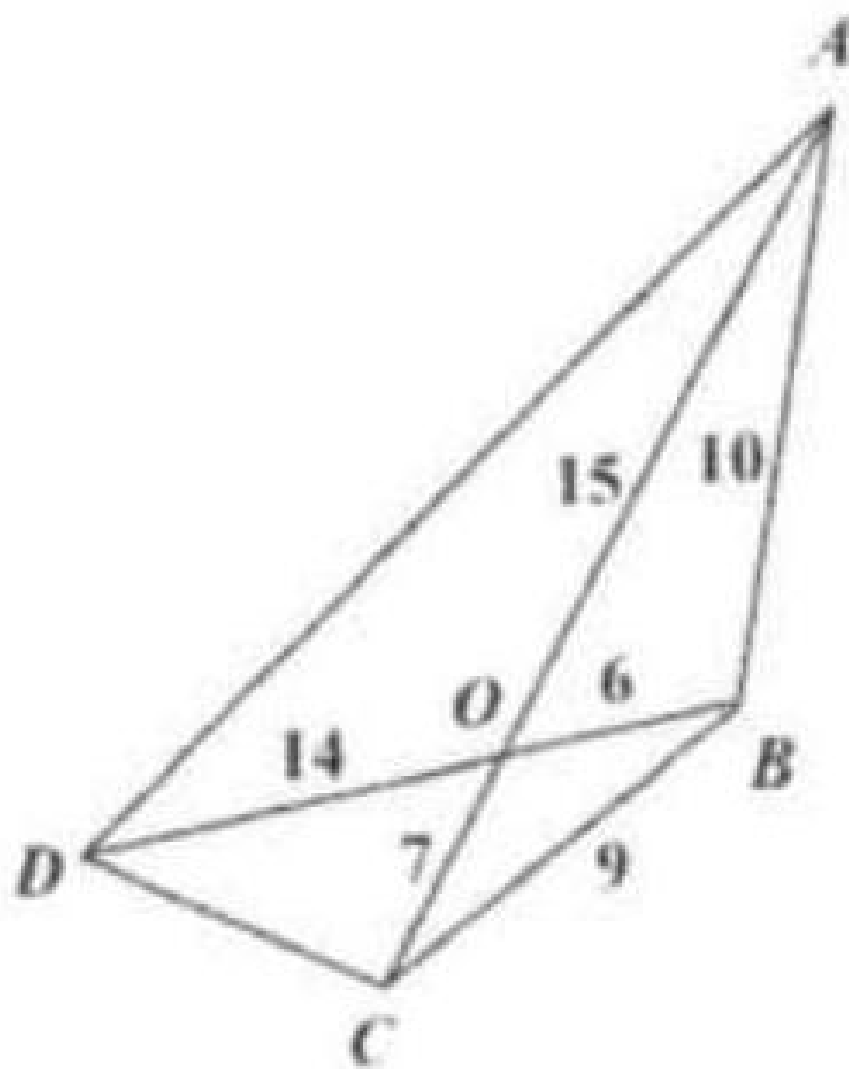# Problem 12

## Problem

As shown in the figure, two diagonals $AC$ and $BD$ of quadrilateral $ABCD$ intersect at $O$. Find the length of $AD$ if $BO = 6, OD = 14, AO = 15, OC = 7$, and $AB = 10$.

(A) $9\sqrt{7}$
(B) $8\sqrt{7}$
(C) $6\sqrt{7}$
(D) $8\sqrt{2}$
(E) $10\sqrt{7}$

## Solution

Solution not available.