Example No. 1

Use the exhibit provided to answer the following question.



A farmer is excavating a ditch to drain an existing field. Using the given profile and typical cross section, calculate the quantity of excavated material.

A.	1,145 cy
B.	1,242 cy
0	1 251

- 1,251 cy С.
- 1,287 cy D.

Example No. 2

A portion of a USGS map with a scale of 1'' = 2,000' is to be enlarged by a factor of 5 (a 500% enlargement). What is the scale ratio of the new map?

- A. 1:400
- B. 1:4,800
- C. 1:10,000
- D. 1:120,000

Example No. 3

A portion of a roadway is being staked as a circular curve from Point X (BC) to Point Y (EC). If the straight distance from Point X to Point Y is 460 ft and the central angle of the survey is 45° , what is the length of the curve?

- A. 460 ft
- B. 472 ft
- C. 544 ft
- D. 601 ft