

# QUESTION 2 (100%)

Answered: 100% Correctly

The image contains three diagrams illustrating the geometry of a circular arch. The top diagram shows a cross-section of a structure with a semi-circular arch. The bottom-left diagram shows a rectangular frame with a semi-circular arch on top, with dimensions labeled. The bottom-right diagram shows a similar structure with a semi-circular arch, with dimensions labeled.

**Diagram 1 (Top):** A cross-section of a structure with a semi-circular arch. The arch is supported by two vertical columns. The height of the columns is labeled as  $h$ . The radius of the arch is labeled as  $r$ . The total height of the structure is labeled as  $H$ . The width of the base is labeled as  $2r$ .

**Diagram 2 (Bottom Left):** A rectangular frame with a semi-circular arch on top. The height of the columns is labeled as  $h$ . The radius of the arch is labeled as  $r$ . The total height of the structure is labeled as  $H$ . The width of the base is labeled as  $2r$ .

**Diagram 3 (Bottom Right):** A rectangular frame with a semi-circular arch on top. The height of the columns is labeled as  $h$ . The radius of the arch is labeled as  $r$ . The total height of the structure is labeled as  $H$ . The width of the base is labeled as  $2r$ .