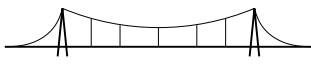
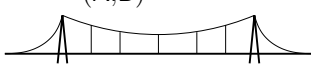
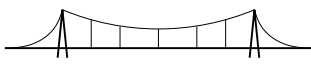
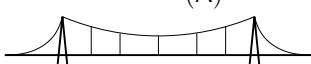
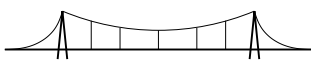

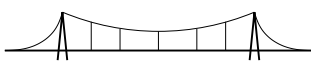

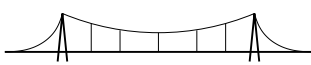

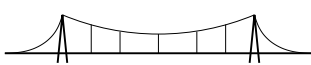


I U P U I

MATH CLUB TEASER #20

April 10, 2009
(due April 17, 2009)

SOLUTION

<p>A,B,C,D </p>	<p>YES, THEY CAN CROSS IN TIME!</p>
<p style="text-align: center;">(A,B) $\xrightarrow{2 \text{ min}}$</p> <p>C,D </p>	<p>(2 minutes)</p>
<p>C,D  A,B</p>	
<p style="text-align: center;">$\xleftarrow{1 \text{ min}}$ (A)</p> <p>C,D  B</p>	<p>(3 minutes)</p>
<p>A,C,D  B</p>	
<p style="text-align: center;">(C,D) $\xrightarrow{10 \text{ min}}$</p> <p>A  B</p>	<p>(13 minutes)</p>
<p>A  B,C,D</p>	
<p style="text-align: center;">$\xleftarrow{2 \text{ min}}$ (B)</p> <p>A  C,D</p>	<p>(15 minutes)</p>
<p>A,B  C,D</p>	
<p style="text-align: center;">(A,B) $\xrightarrow{2 \text{ min}}$</p> <p> C,D</p>	<p>(17 minutes)</p>
<p> A,B,C,D</p>	

SOLVED BY:

Hamed AlBisher, The Dream Team, The Geodesic Giants,
Benjamin Hudelson, Zoila Malespin, The Residues,
Think Before You Act, Jeremy Wuestefeld.