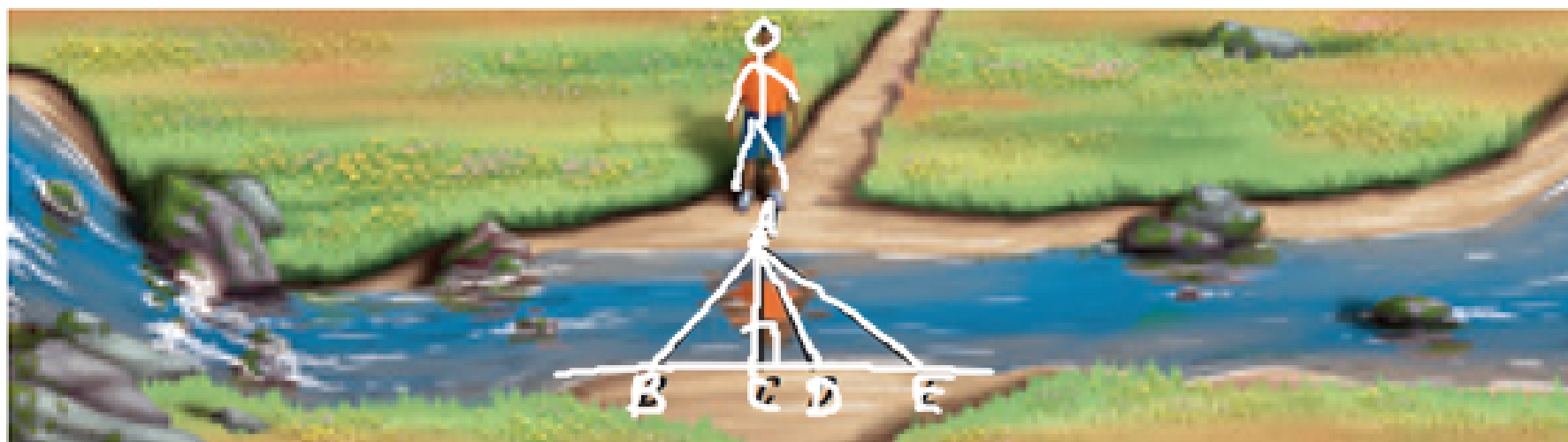


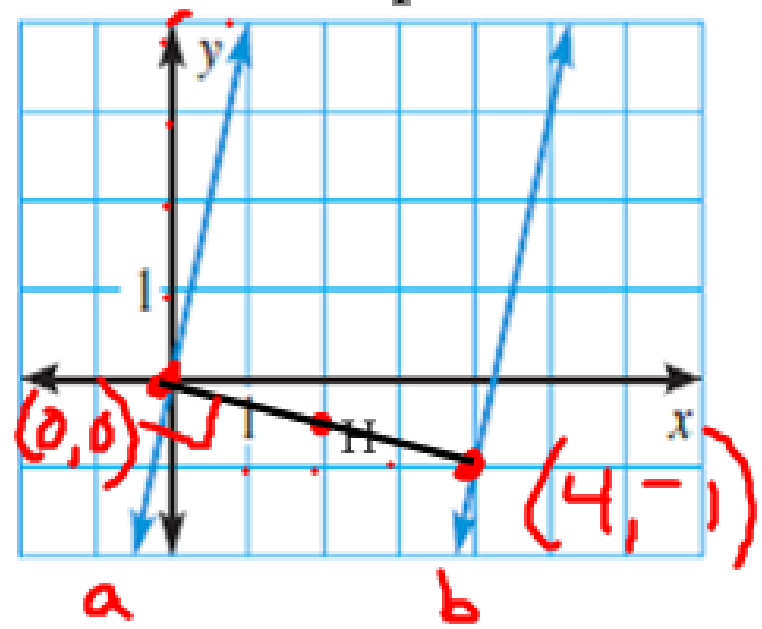
**STREAMS** You are trying to cross a stream from point A. Which point should you jump to in order to jump the shortest distance? *Explain.*



The distance from a point to a line is the length of the perpendicular segment from the point to the line.

This is also true for the distance between two parallel lines . . . .

Use the distance formula to find the distance between the parallel lines.



$$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$\sqrt{(4 - 0)^2 + (-1 - 0)^2}$$

$$\sqrt{4^2 + (-1)^2}$$

$$\sqrt{16 + 1}$$

$m = 4$  of parallel lines       $\sqrt{17} \approx 4.1$

$m = -\frac{1}{4}$   $\perp$  segment

How could we find the distance from point H to one of the lines?

Homework:

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#'s 1, 22, 24

**Review assign.  
Test next time!!**

P 202

1-6, 8-18, 20-26, 28

P. 206

22-24