

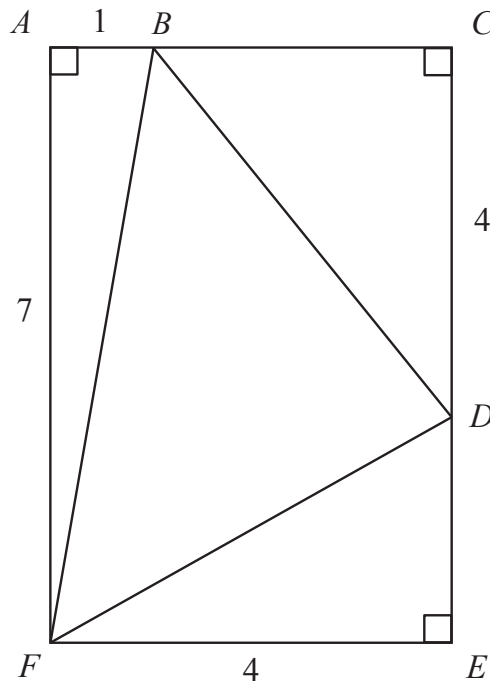


# Problem of the Week

## Problem D

### Multiple Solutions

$ACEF$  is a rectangle with  $FE = 4$  and  $FA = 7$ .  $\triangle BDF$  is inscribed in rectangle  $ACEF$  with  $B$  on  $AC$  such that  $AB = 1$  and  $D$  on  $CE$  such that  $CD = 4$ . Determine the value of  $\angle ABF + \angle CBD$ .



There are many ways to solve this problem. Try to find as many different solutions as possible.

