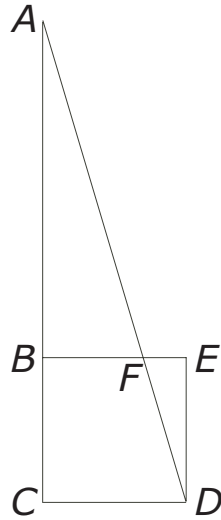# Problem of the Week
## Grade 9 and 10

### Several Areas of Interest



The area of $\triangle ACD$ is twice the area of square $BCDE$. Square $BCDE$ has sides of length 12 cm. $AD$ intersects $BE$ at $F$.

Determine the area of quadrilateral $BCDF$.