Name $\qquad$ Date $\qquad$
Amelia is making a drawing to determine the length of a fence needed to go around her garden. Using the given coordinates, draw an outline of her garden (polygon $A B C D E F$ ) and determine the total length of fencing needed. Show all work neatly and completely to justify your answer.
$A(6,3)$
$B(6,-4)$
$C(-10,-4)$
$D(-10,7)$
$E(-5,7)$
$F(-5,3)$




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Name $\qquad$ Date $\qquad$

Celine's teacher asked her to use a diagram to determine the area of a patio with vertices at $\left(-7,-2 \frac{1}{2}\right),\left(2 \frac{1}{2},-2 \frac{1}{2}\right),\left(2 \frac{1}{2},-5 \frac{1}{2}\right)$, and $\left(-7,-5 \frac{1}{2}\right)$ on a coordinate grid.

1. Graph the polygon.
2. Determine the area. Show your work neatly and completely to justify your answer.


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Name $\qquad$ Date $\qquad$
The coordinates of the vertices of polgyon $E F G H$ are:
$E(-5.5,4) \quad F(-2,8.25) \quad G(2.5,4) \quad H(-2,-7.75)$

1. Graph the polygon and label the vertices.

2. Find the length of each diagonal ( $\overline{E G}$ and $\overline{F H}$ ). Show your work clearly or explain how you found the lengths.

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