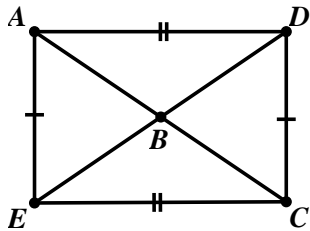
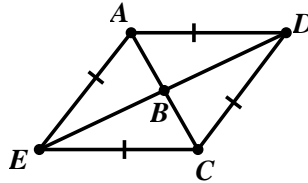


- Which is always true of consecutive sides of a Rectangle?
 - are perpendicular
 - are parallel
 - are congruent
 - none of these
- Quadrilateral ABCD must be a Rectangle if:
 - $m\angle A = 90^\circ$
 - $\overline{AC} \cong \overline{BD}$
 - $\overline{AB} \parallel \overline{CD}$
 - $\angle A \cong \angle B \cong \angle C \cong \angle D$
- Quadrilateral ABCD has perpendicular diagonals. Which statement must be true?
 - ABCD is a Parallelogram
 - ABCD is a Rhombus
 - ABCD is a Rectangle
 - None of these
- Which method will prove that Quadrilateral ABCD is a Rhombus?
 - Proving $\overline{AB} \cong \overline{CD}$
 - Proving \overline{AC} bisects $\angle BAD$
 - Proving $\overline{AC} \perp \overline{BD}$
 - Proving $\overline{AB} \cong \overline{BC} \cong \overline{CD} \cong \overline{DA}$

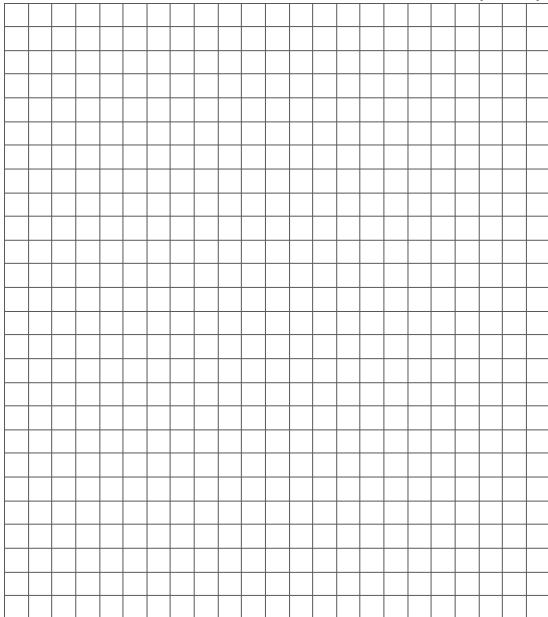
5. Rectangle ADCE, $m\angle BEC = 25$.
 Find $m\angle AEB$ & $m\angle EBC$.



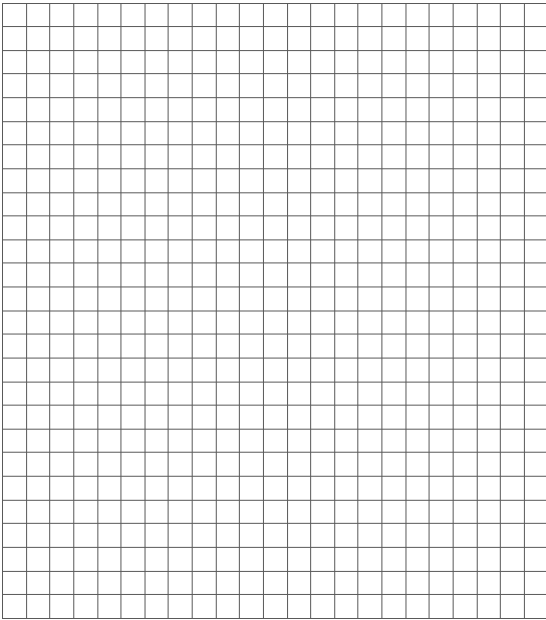
6. Rhombus ADCE. $m\angle AEC = 56$.
 Find $m\angle BEC$ & $m\angle DCE$.



7. Quadrilateral ABCD has vertices A(-1,3), B(-2,6), C(2,11) and D(3,8). Prove ABCD is a Parallelogram.



8. Quadrilateral ABCD has vertices A(2,5), B(7,1), C(2,-3) and D(-3,1). Prove that ABCD is a Rhombus.



9. Given: \overline{AEFC}
 $\overline{AF} \cong \overline{CE}$
 $\overline{BE} \cong \overline{DF}$
 $\angle BEF$ & $\angle DFE$ are right angles

Prove: ABCD is a parallelogram

Hint: Show that ABCD is a quad with 1 pair of sides both \cong and \parallel .

