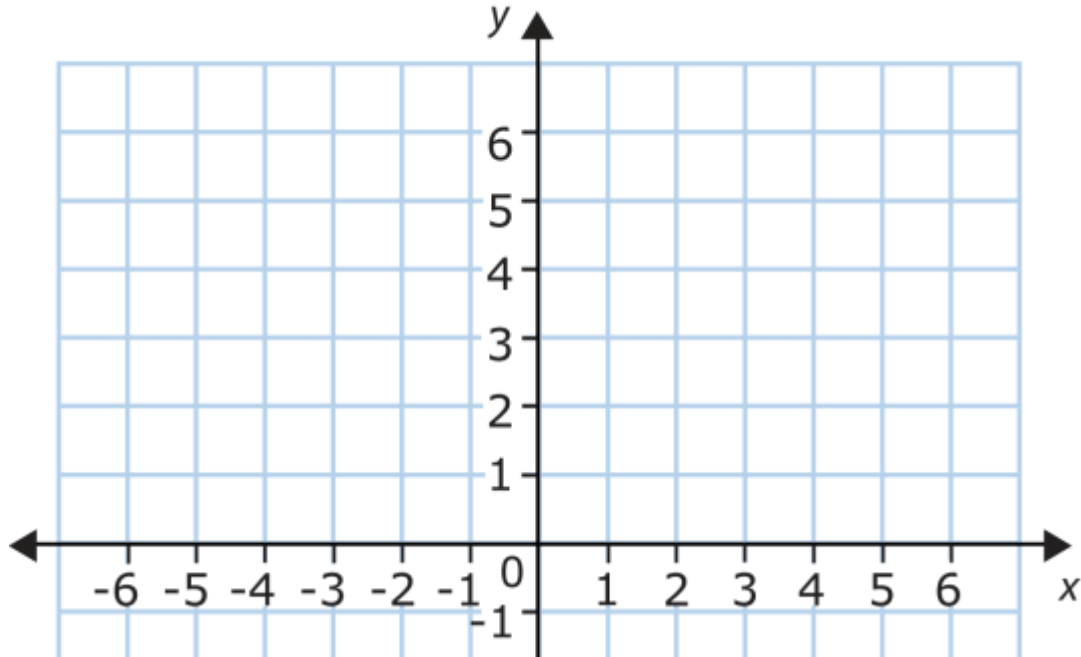


Classify the quadrilateral formed by the points A(-3,4) B(-2,0) C(2,1) and D(1,5).



1. Is ABCD a parallelogram? Justify your answer with numbers.

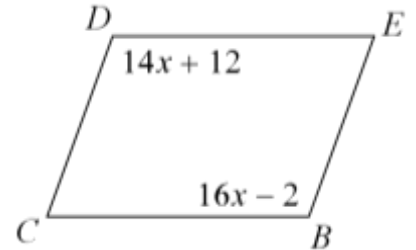
2. Is ABCD a rectangle? Justify your answer with numbers.

3. Is ABCD a rhombus? Justify your answer with numbers.

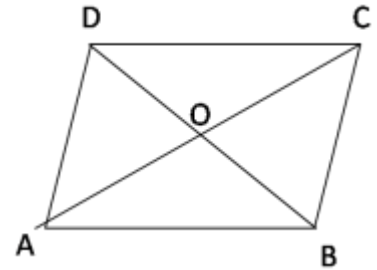
4. What is the most specific name for ABCD? Explain.

CO-C11a

5. CDEB is a parallelogram. Find the measure of  $\angle E$



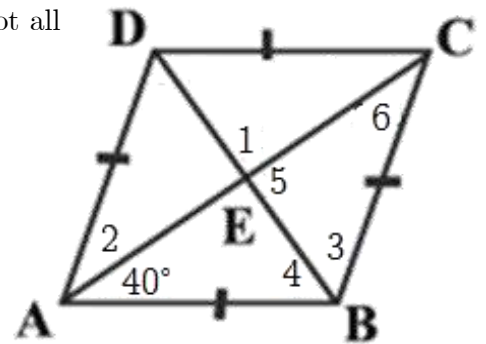
6. ABCD is a parallelogram with diagonals crossing at O. Suppose  $DB = 6x + 12$  and  $DO = 2x + 8$ . Find the length of OB.



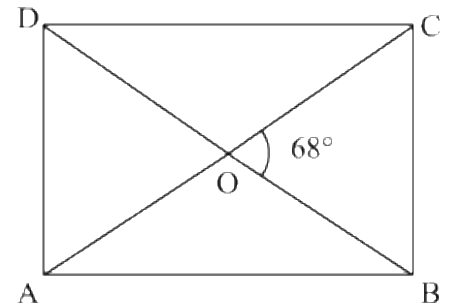
CO-C11b

7. ABCD is a rhombus. Match the equal values in the lists below. Not all the measures will be used, and some are used more than once.

<u>Angles</u>	<u>Measures</u>
1	$40^\circ$
2	$50^\circ$
3	$30^\circ$
4	$45^\circ$
5	$90^\circ$
6	$60^\circ$



8. ABCD is a rectangle with diagonals crossing at O. Find measures of:  
 $\angle CAB$ :                       $\angle BDA$ :                       $\angle ABC$ :

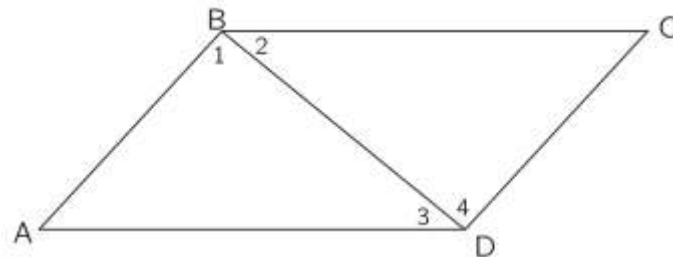


SRT-B5b

9. Complete the proof using the choices provided. Use as many steps as needed.

GIVEN:  $\overline{AB} \parallel \overline{CD}$  and  $\overline{BC} \parallel \overline{DA}$       PROVE:  $\overline{AB} \cong \overline{CD}$

<u>Statements</u>	<u>Reasons</u>
1. $\overline{AB} \parallel \overline{CD}$ and $\overline{BC} \parallel \overline{DA}$	1. Given



Statement and Reason Choices, feel free to ignore (some are distractors)

Vertical Angles	Alternate Interior Angles	ASA	AAS	SSS	HL	SAS	Reflexive Property
$\angle 1 \cong \angle 2$ and $\angle 3 \cong \angle 4$	$\angle 1 \cong \angle 4$ and $\angle 2 \cong \angle 3$		Def of bisect	$\overline{DB} \cong \overline{BD}$			$\angle A \cong \angle C$
$\overline{AB} \cong \overline{CD}$	$\triangle ABD \cong \triangle CDB$	$\triangle BDA \cong \triangle BDC$	CPCTC				