

Analytic Geometry
Chapter 7 Test Review

Name: _____
Date _____ Period _____

1. List the properties of the following figures:

a) parallelogram

- Opposite sides parallel

- _____
- _____
- _____
- _____

b) rectangle-properties of a parallelogram +

- Definition: _____
- _____

c) rhombus-properties of a parallelogram +

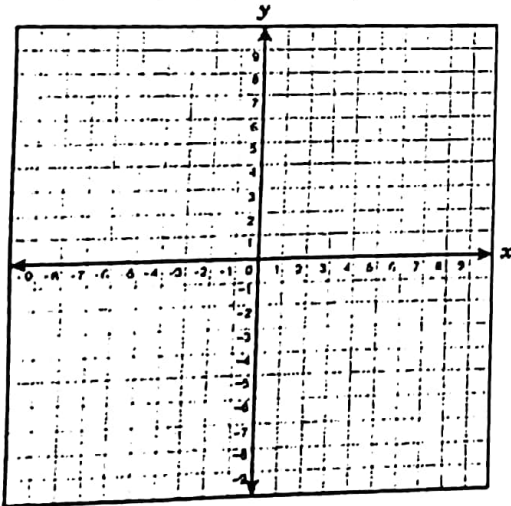
- Definition: _____
- _____
- _____

d) square

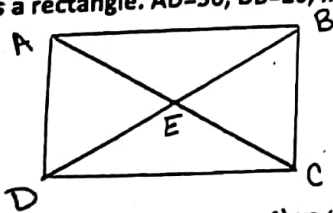
- All properties of a _____ and _____.

2) Use the diagonals to determine if the parallelogram is a rectangle, rhombus, or square.

A(-4, -2) B(-2, 4) C(4, 2) D(2, -4)



ABCD is a rectangle. $AD=30$, $DB=26$, $m\angle BAE = (3x + 2)$, $m\angle DCE = (6x - 7)$. Find each of the following measures.



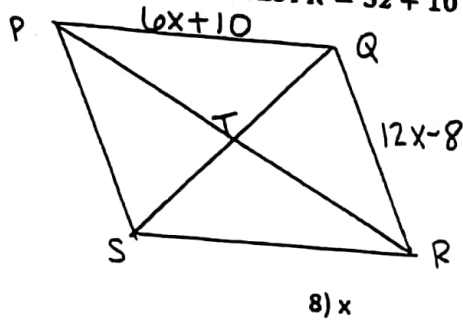
3) AE

4) $m\angle ADC$

5) $m\angle BAE$

6) BC

PQRS is a rhombus. The $m\angle STR = 5z + 10$ and the $m\angle TRS = 30^\circ$. Find each of the following measures.



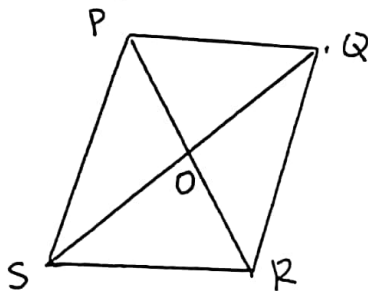
7) y

8) x

9) SR

10) $m\angle SRQ$

Quadrilateral PQRS is a parallelogram. $PS=10$, $SR=7$, $OS=5$, $OR=2$, $m\angle PQR = 60^\circ$, $m\angle SPR = 50^\circ$. Find each of the following measures.



11) QR

12) PQ

13) QS

14) OP

15) $m\angle PSR$

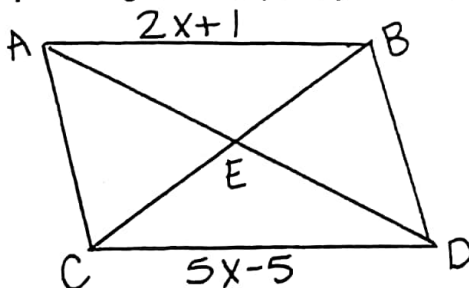
16) $m\angle QPS$

17) $m\angle QRP$

18) $m\angle RPQ$

ABDC

ABDC is a parallelogram. $AC=3$, $AE=2$, $m\angle ACD = 108^\circ$. Find each of the following measures.



19) $m\angle BDC$

20) AB

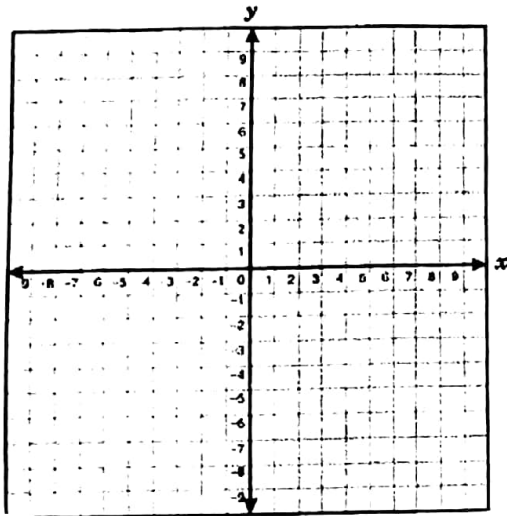
21) $m\angle BAC$

22) DE

23) BD

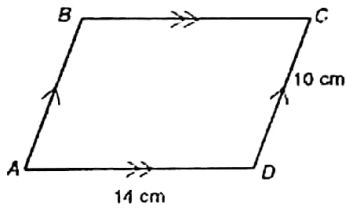
24) $m\angle ABD$

25) Prove the following quadrilateral with vertices A(-3, -3) B(1, 1) C(5, -1) and D(1, -5) is a parallelogram

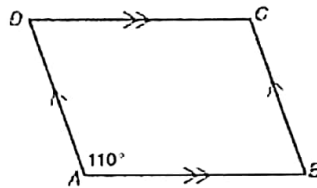


Find each measure.

26) AB



27) $m\angle D$



Find each measure in $\square LMNP$.

28) ML

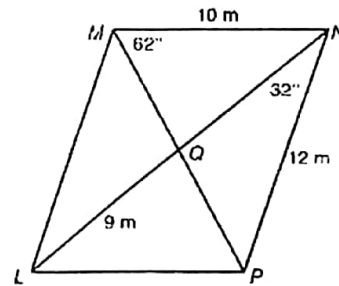
29) LP

30) $m\angle LPM$

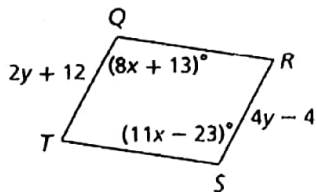
31) LN

32) $m\angle MLN$

33) QN



QRST is a parallelogram. Find each measure.



34) TQ

35) $m\angle T$