7-1 Opener - Angles of Polygons

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Find the measure of each interior angle.



1. The measure of an interior angle of a regular polygon is given.

Find the number of sides in the polygon.

162°

1.  Find the value of x in each diagram.

7-1 Exit Slip - Angles of Polygons

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Find the measure of each interior angle.

1. The measure of an interior angle of a regular polygon is given.

Find the number of sides in the polygon.

90°

1. Find the value of x in each diagram.



7-2 Opener – Parallelograms

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Use ▱ABCD to find each measure.

**** *m∠C*

*DC*

1. Find the value of the variable.



7-2 Exit Slip – Parallelograms

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Use ▱ABCD to find each measure.

**** *m∠D*

*AD*

1. Find the value of the variable in each parallelogram.





7-3 Opener – Tests for Parallelograms

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Determine whether each quadrilateral is a parallelogram. State your reasoning.



1. Determine if the quadrilateral is a parallelogram.

*W*(5, 6), *X*(6, 3), *Y*(3, 0), *Z*(2, 3); Midpoint Formula

1. Find the value of a and b.



7-3 Exit Slip – Tests for Parallelograms

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Determine whether each quadrilateral is a parallelogram. State your reasoning.



1. Determine if the quadrilateral is a parallelogram.

 *P*(–2, 4), *Q*(4, 5), *R*(4, 2), *S*(–2, 0); Slope Formula



1. Find the value of a and b.

7-4 Opener – Rectangles

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Quadrilateral ABCD is a rectangle. Use the given information to find each measure.

If *BD* = 12, find *ED*.   ****

If m∠ABD=47°, find m∠CDB.

1. ****Write a two-column proof.

**Given:** *FGHJ* is a rectangle.

**Prove:**∆GKF≅∆JKH

7-4 Exit Slip – Rectangles

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Quadrilateral ABCD is a rectangle. Use the given information to find each measure.

If m∠BEA=35°, find m∠BAE..   ****

If *BA* = 3*x* + 1 and *CD* = 5*x* – 3, find *BA*.

1. ****Write a two-column proof.

**Given:** *QRST* is a rectangle; SP≅PT

**Prove:** RP≅QP

7-5 Opener – Rhombi and Squares

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Quadrilateral ZYXW is a rhombus. Find each value or measure.

If $m∠ZYW= 37$°, find $m∠YWX.$

If $YV = 7$, find VW.

****

1. ABCD is a square.

 If $BD=22$, find AE.

7-5 Exit Slip – Rhombi and Squares

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Quadrilateral ZYXW is a rhombus. Find each value or measure.

If $m∠VWZ= 39°,$ find $m∠VZW$

****

If *YW* = 6 and *XW* = 5, find *VX*.

1. PQRS is a square.

 If $QS=17$, find QT.

* 1. Opener – Trapezoids and Kites

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Find each measure

****

 *m*∠*A*

****

1. CD is the midsegment of trapezoid ABGF.

 If *FG* = 22 and *CD* = 13, find *AB.*

****

1. Find each measure in the kite.

 7-6 Exit Slip – Trapezoids and Kites

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Find each measure

****

 *m*∠*R*

****

1. CD is the midsegment of trapezoid ABGF.

 If *BA* = 17 and *DC* = 32, find *CD.*

****

1. Find each measure in the kite.