7-1 Opener - Angles of Polygons

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

1. Find the measure of each interior angle.

A blue hexagon on a black background

Description automatically generated

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

Find the number of sides in the polygon.

162°

1. A blue lines with arrows

   Description automatically generated Find the value of x in each diagram.

7-1 Exit Slip - Angles of Polygons

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

1. A blue line on a black background

   Description automatically generatedFind 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.

A blue lines with arrows

Description automatically generated

7-2 Opener – Parallelograms

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

1. Use ▱ABCD to find each measure.

**A black background with blue lines

Description automatically generated** *m∠C*

*DC*

1. Find the value of the variable.

A blue rectangle with x and x in it

Description automatically generatedA blue and black rectangle with a black background

Description automatically generated

7-2 Exit Slip – Parallelograms

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

1. Use ▱ABCD to find each measure.

**A black background with blue lines

Description automatically generated** *m∠D*

*AD*

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

A blue rectangle with black background

Description automatically generated

A blue lines on a black background

Description automatically generated

7-3 Opener – Tests for Parallelograms

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

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

A blue and pink arrows

Description automatically generatedA blue and pink rectangle with pink lines on a black background

Description automatically generated

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.

A blue lines on a black background

Description automatically generated

7-3 Exit Slip – Tests for Parallelograms

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

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

A blue and pink lines on a black background

Description automatically generatedA blue and pink rectangle with circles on a black background

Description automatically generated

1. Determine if the quadrilateral is a parallelogram.

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

A black background with blue rectangles

Description automatically generated

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*.   **A blue line on a black background

Description automatically generated**

If m∠ABD=47°, find m∠CDB.

1. **A blue x on a black background

   Description automatically generated**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..   **A blue line on a black background

Description automatically generated**

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

1. **A blue and pink lines on a black background

   Description automatically generated**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 °, find

If , find VW.

**A blue square with x in center

Description automatically generated**

1. A blue square with x in center

   Description automatically generatedABCD is a square.

If , find AE.

7-5 Exit Slip – Rhombi and Squares

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

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

If  find

**A blue square with x in center

Description automatically generated**

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

1. PQRS is a square.

A blue square with four squares

Description automatically generated with medium confidence If , find QT.

* 1. Opener – Trapezoids and Kites

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

1. Find each measure

**A blue and pink lines on a black background

Description automatically generated**

*m*∠*A*

**A blue line on a black background

Description automatically generated**

1. CD is the midsegment of trapezoid ABGF.

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

**A blue and pink lines on a black background

Description automatically generated**

1. Find each measure in the kite.

7-6 Exit Slip – Trapezoids and Kites

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

1. Find each measure

**A blue triangle with a pink and black background

Description automatically generated with medium confidence**

*m*∠*R*

**A blue line on a black background

Description automatically generated**

1. CD is the midsegment of trapezoid ABGF.

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

**A blue and pink lines on a black background

Description automatically generated**

1. Find each measure in the kite.