**Angles, Triangles, and Parallel Lines**

**Unit Review**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Learning Goals:**

1. **I can find missing angles using geometry**
2. **I can use tools such as a protractor and a compass to draw angles**

**Learning Goal #1: I can find missing angles using geometry**

***Novice***

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| Define the following vocab words and draw a diagram to represent the idea:   1. Parallel lines: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  1. Alternate interior angles: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_      1. Corresponding angles: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_      1. Same Side Interior Angles: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_      1. Supplementary angles: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| What is the sum of the interior angles in the below shapes? | Draw the three types of triangles and state geometry facts about each: |
| Complete the interior angles of the below triangle: | Which pairs of angles are equal in the below diagram? |
| Are lines AB and CD parallel? Why or why not? | Complete the below |

***Apprentice***

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| Angle z is 115º. What is the value of angle y? | Find all the missing angles in the below shape: |
| Find all the missing angles in the below shape: | 1. Determine the measures of a, b, c, and d |
| Determine the value of each of the unknown angles: | Determine the angle of each of the interior measures of the triangle below: |
| Determine Find the sum of the measures of the interior angles of this polygon. | Determine Find the sum of the measures of the interior angles of this polygon. |



***Expert***

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| Determine the value of x | Determine the value of x |
| Determine the measure of angle DEF | Determine the measure of angle PQT |
| Determine Determine the value of *a, b, c, and d* | A regular hA hexagon shares a side with a regular pentagon, as shown.  Determine the measures of the interior angles of *ABC*.  Show your solution. |
| Determine Find the sum of the measures of the angles in a 12-sided convex polygon. | Each interi Each interior angle of a regular convex polygon measures 162°. How many sides does the polygon have? |
| Fin aFin Find all the missing angles  https://vvusd.brainhoney.com/Resource/4948311,20,0,0,0/Assets/flvs/educator_geometry_v8_gs/module03/imagmod03/03_04c_04.gif | |

**Learning Goal #2: I can use tools such as a protractor and a compass to draw angles**

***Novice***

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| --- | --- |
| What is the below angle? | What is the below angle? |
| What is the below angle? | What is the below angle? |

***Apprentice***

|  |  |
| --- | --- |
| Use a protractor to find the below angle | Use a protractor to find the below angle |
| Use a protractor to find the below angle. | Use a protractor to find the below angle: |

***Expert***

|  |  |
| --- | --- |
| Using a compass, draw a 90º angle | Using a compass, draw a 60º angle |
| Using a compass, draw a 30º angle | Using a compass, draw a 120º angle |