Angle Pairs: Vertical, Linear, Complementary, & Supplementary

**Vertical Angles** are opposite angles created by crossed lines (looks like an X).

**VERTICAL ANGLES ARE CONGRUENT.**

**A Linear Pair** is a set of two angles, connected at the corner & sharing a side), that, together, are a line.

**A LINEAR PAIR ADDS TO EQUAL 180˚.**

**Complementary Angles** are any two angles whose measures **ADD TO EQUAL 90˚.**

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**Supplementary Angles** are any two angles whose measures **ADD TO EQUAL 180˚.**

**Identify the type of angle pair.**

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| **EXAMPLE**    Type: **LINEAR PAIR**  Process: **ADD TO = 180˚** | **EXAMPLE**  **37+53=90**  Type: **COMPLEMENTARY**  Process: **ADD TO = 90˚** | **EXAMPLE**    Type: **VERTICAL ANGLES**  Process: **THEY’RE EQUAL** | **EXAMPLE**  **78+102=180**  Type: **SUPPLEMENTARY**  Process: **ADD TO = 180˚** |
| 1.    Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 2.  Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 3.  Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 4.    Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 5.    Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 6.  Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 7.    Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 8.  Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 9.  Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 10.    Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 11.    Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 12.  Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Evaluate. Determine the measure of all of the numbered angles.**

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| 13.    Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_ \_\_\_\_\_  \_\_\_\_\_ \_\_\_\_\_ | 14.    Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_ \_\_\_\_\_  \_\_\_\_\_ \_\_\_\_\_ |
| 15.    Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_ \_\_\_\_\_  \_\_\_\_\_ \_\_\_\_\_ | 16.    Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_ \_\_\_\_\_ |
| 17.    Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_ \_\_\_\_\_  \_\_\_\_\_ \_\_\_\_\_ | 18.    Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_ \_\_\_\_\_  \_\_\_\_\_ \_\_\_\_\_ |

**Evaluate.**

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| 19. are complementary  72˚. ?  Process: **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | 20. are supplementary.  111˚. ?  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 21. are supplementary.  (4x – 2)˚ & (5x –29)˚.  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 22. are complementary  ,    Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 23. are supplementary.  ,  .  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 24. are complementary.  .  Process: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |