Angles

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| **Parallel Lines** -  | **A) Corresponding angles -**  Corresponding angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
| **Transversal** – | ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ | ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ |
| ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ | ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ |
| http://www.mathwords.com/t/t_assets/transversal%20parallel%20lines.gif | http://www.mathwords.com/t/t_assets/transversal%20parallel%20lines.gif |

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| B) **Alternate exterior angles**. Alternate exterior angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | **C) Alternate interior angles**Alternate interior angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
| ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ | ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ | ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ | ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ |
| http://www.mathwords.com/t/t_assets/transversal%20parallel%20lines.gif | http://www.mathwords.com/t/t_assets/transversal%20parallel%20lines.gif |

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| **D) Vertical angles**Vertical angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | http://www.mathwords.com/t/t_assets/transversal%20parallel%20lines.gif |
| ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ | ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ |
| ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ | ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ |

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| **E) Same side interior angles**Same side interior angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This mean that the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the two angles equals \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. m∠ \_\_\_\_\_\_\_\_ + m ∠ \_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ &m∠ \_\_\_\_\_\_\_\_ + m ∠ \_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  | http://www.mathwords.com/t/t_assets/transversal%20parallel%20lines.gif |
| ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ | ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ |

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| **F) Linear Pairs**This mean that the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the two angles equals \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and form a straight line. | http://www.mathwords.com/t/t_assets/transversal%20parallel%20lines.gif |
| ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ | ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ |
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| ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ | ∠ \_\_\_\_\_\_\_\_ & ∠ \_\_\_\_\_\_\_\_ |

**Practice**

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| Use the following figure for each example problem below. Line AB and Line CD are parallel. *The figure is not drawn to scale.* http://img.sparknotes.com/figures/C/cdafbce3d7fbcda5507c818a9e198ec0/transversal.gif |
| Example 1: | ∠1 & ∠5 are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ angles, so their measures are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | *m*1 = 105°, Find the *m*5 m5 = \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Example 2: | ∠1 & ∠4 are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ angles, so their measures are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | *m*1 = 105°, Find the *m*4 m*4* = \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Example 3: | ∠1 & ∠2 are a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, so the sum of their measures equals \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | *m*1 = 105°, Find the *m2* m*2* = \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Example 4: | Given *m*7= 55°. Find the measure of as many of the other angles as possible. | m∠1 = \_\_\_\_\_\_\_\_\_\_ m∠5 = \_\_\_\_\_\_\_\_\_\_m∠2 = \_\_\_\_\_\_\_\_\_\_ m∠6 = \_\_\_\_\_\_\_\_\_\_m∠3 = \_\_\_\_\_\_\_\_\_\_ m∠8 = \_\_\_\_\_\_\_\_\_\_m∠4 = \_\_\_\_\_\_\_\_\_ |