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 = \_\_\_\_\_\_\_\_\_ |