**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per.\_\_\_\_\_\_\_ Score:\_\_\_\_\_**

**U2 HW #3** *Finding Angle Measures in Triangles and Similar Triangles*

**Directions:** In the following problems, solve for the missing angle(s). SHOW YOUR WORK and each equation used to solve for missing variables/measure.

|  |  |
| --- | --- |
| 1.

$x=$ \_\_\_\_\_\_\_\_\_\_ | 1.

$x=$ \_\_\_\_\_\_\_\_\_\_ |
| 1.

$x=$ \_\_\_\_\_\_\_\_\_\_ | 1.

$x=$ \_\_\_\_\_\_\_\_\_\_ |
| 1.

$x=$ \_\_\_\_\_\_\_\_\_ | 1.

$a=$ \_\_\_\_\_\_ $b=$ \_\_\_\_ $c=$ \_\_\_\_\_\_ |
| 1.

$x=$ \_\_\_\_\_\_\_\_\_\_ | 1.

$x=$ \_\_\_\_\_\_\_\_\_\_ |
| 1. Given: line $c∥$ line *d.*

Hint: Extend the lines to see other relationshis.$x=$ \_\_\_\_\_ $y=$ \_\_\_\_\_\_\_ $z=$ \_\_\_\_\_\_\_ | 1. Given: line $a∥$ line b

$m∠1=$ \_\_\_\_ $m∠2=$ \_\_\_\_\_ $m∠3=$ \_\_\_\_$m∠4=$ \_\_\_\_\_ $m∠5=$ \_\_\_\_\_\_ |
| 1.

$t=$\_\_\_\_\_\_ $ y=$\_\_\_\_\_\_\_\_\_ $z=$ \_\_\_\_\_\_ $x=$ \_\_\_\_\_\_\_  | 1. Given: line $l∥$ line *m*

$m∠2=$ \_\_\_\_\_ $m∠3=$ \_\_\_\_\_\_\_ $x=$ \_\_\_\_\_  |