# Unit 4 – Geometry
## 4.4B – Parallel Lines, Transversals and Angles
### Extra Practice

1. Identify the type of angle: acute, right, obtuse, straight, or reflex.

   a.  90⁰         b.  65⁰         c.  180⁰         d.  140⁰         e.  200⁰

2. Determine the True Bearings for the following, without looking at the chart:

   a.  A boat travelling North East.

   b.  A bird flying West-North-West.

   c.  A person driving South-South-East

3. Complete the following table. The first one is done for you.

| Angle | Complementary Angle | Supplementary Angle | Resulting measure after the angle is bisected |
|---|---|---|---|
| 5⁰ | 85⁰ | 175⁰ | 2.5⁰ |
|  | 75⁰ |  |  |
|  |  | 100⁰ |  |
| 95⁰ |  |  |  |
|  |  |  | 40⁰ |
|  |  |  | 160⁰ |
|  | 25⁰ |  |  |
|  |  | 105⁰ |  |
| 25⁰ |  |  |  |
|  |  |  | 65⁰ |

4. Given the diagram, find the angles asked for below.
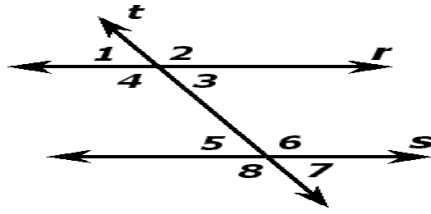


   a) an alternate interior angle to ∠4 ____

   b) an angle vertically opposite to ∠2 ____

   c) a corresponding angle to ∠5 ____

   d) alternate exterior angle to ∠7 ____

   e) an interior angle on the same side of the transversal as ∠6 ____

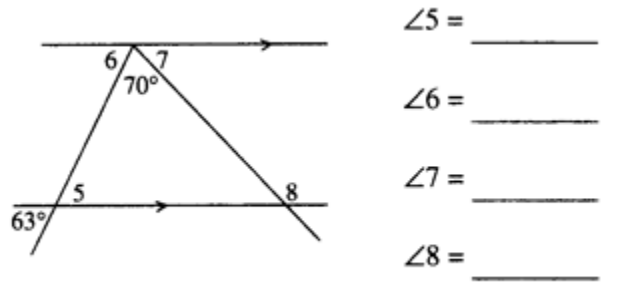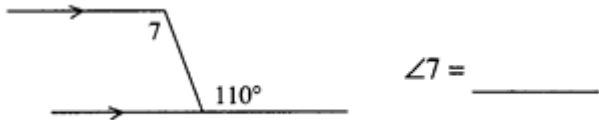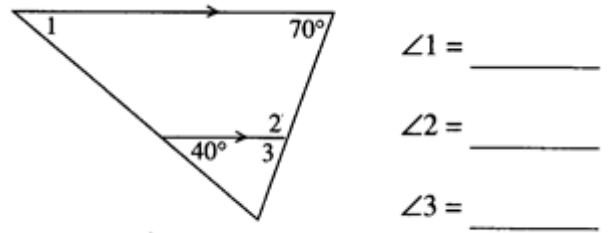   f) an exterior angle on the same side of the transversal as ∠1 ____

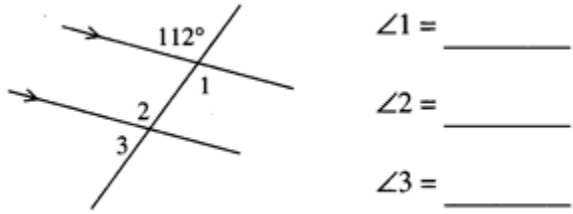5. Using the same diagram, name the relationship between each pair of angles given below.

   a) ∠5 and ∠7 _____

   b) ∠1 and ∠2 _____

   c) ∠4 and ∠8 _____

   d) ∠1 and ∠7 _____

   e) ∠4 and ∠6 _____

   f) ∠3 and ∠6 _____

   g) ∠2 and ∠3 _____

   h) Name ALL pairs of angles that are SUPPLEMENTARY:

   _____

6. Determine the measures of the unknown angles:



∠1 = _____

∠2 = _____

∠3 = _____

112°

1

2

3



70°

40°

2

3

1

∠1 = _____

∠2 = _____

∠3 = _____



7

110°

∠7 = _____



6  7

70°

5

63°

8

∠5 = _____

∠6 = _____

∠7 = _____

∠8 = _____

7. Bisect each of the following angles using your PROTRACTOR.
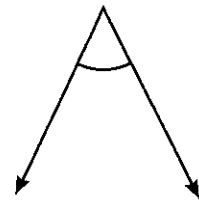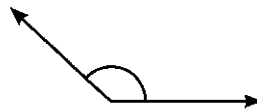


8. Bisect each of the following angles using your COMPASS.