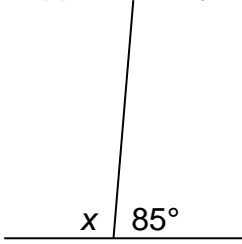


# Relationships in Geometry - Review Sheet

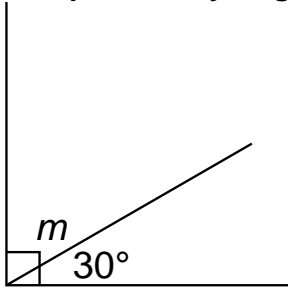
Define each geometric relationship and determine the unknown angles.

1. **Supplementary Angles** – add up to \_\_\_\_\_



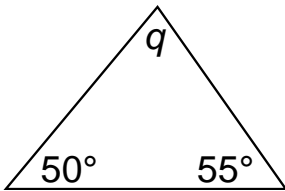
$$x^\circ =$$
$$=$$

2. **Complementary Angles** – add up to \_\_\_\_\_



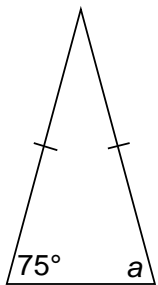
$$m^\circ =$$
$$=$$

3. **The Interior Angles of a Triangle** – add up to \_\_\_\_\_



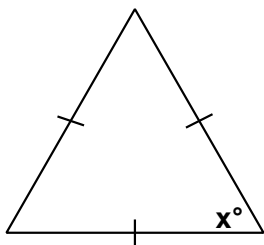
$$q^\circ =$$
$$=$$

4. **Isosceles Triangle Theorem** – two angles the same



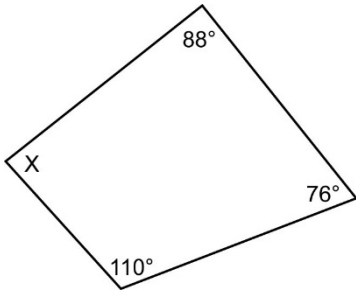
$$a =$$

5. **Equilateral Triangles** – each angle is \_\_\_\_\_



$$x =$$

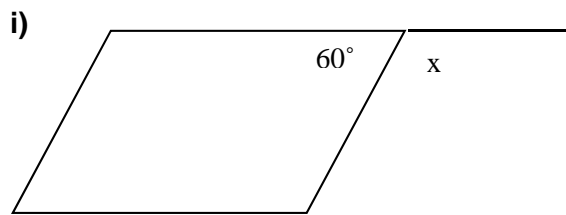
6. The Interior Angles of a Quadrilateral – add up to \_\_\_\_\_



$$x^\circ =$$

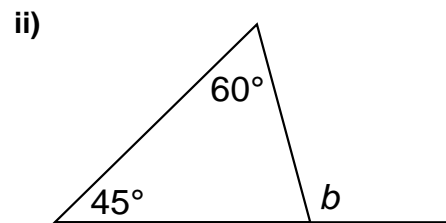
$$=$$

7. One Exterior Angle



$$x^\circ =$$

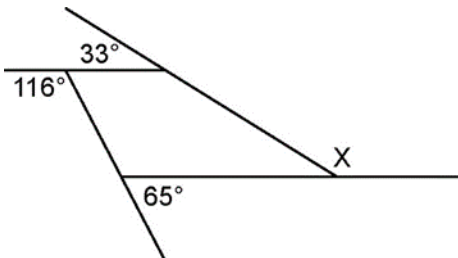
$$=$$



$$b^\circ =$$

$$=$$

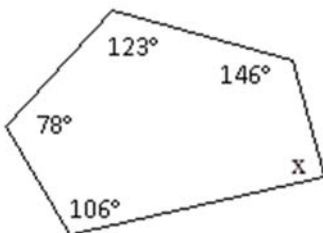
8. ALL Exterior Angles of ANY Polygon – add up to \_\_\_\_\_



$$x^\circ =$$

=

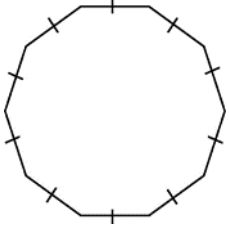
9. Interior Angles of ANY Polygon – use the formula \_\_\_\_\_



$$x^\circ =$$

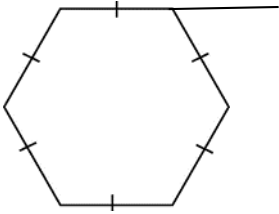
**10. Regular Polygons - \_\_\_\_\_**

a) To find **one** interior angle - \_\_\_\_\_



$x^\circ =$

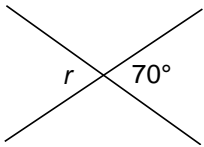
b) To find **one** exterior angle - \_\_\_\_\_



$x^\circ =$

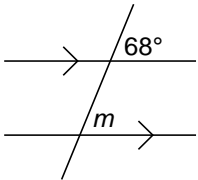
**11. Parallel Lines**

a) Opposite Angles – X pattern – angles are \_\_\_\_\_



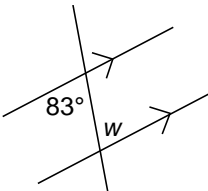
$r^\circ =$   
=

b) Corresponding Angles – F pattern - angles are \_\_\_\_\_



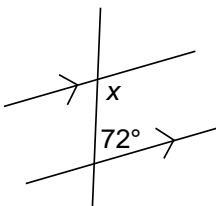
$m^\circ =$

c) Alternate Angles – Z pattern - angles are \_\_\_\_\_



$w^\circ =$

d) Co-interior Angles – C pattern - angles add up to \_\_\_\_\_



$x^\circ =$   
=