

GQ: How do we calculate with angle pairs?

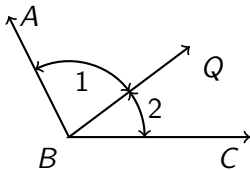
CCSS: HSG.CO.A.1 Know precise geometric definitions

2.3 Monday 19 Oct

Do Now: Write down definitions

1. *Scalene* triangles have three unequal sides
2. *Horizontal*, sideways or level
3. *Vertical*, straight up and down
4. An angle's *measure*, it's size, is written $m\angle$
5. *Angle Addition Postulate*
Measures of adjacent angles sum to the resulting angle

$$m\angle 1 + m\angle 2 = m\angle ABC$$



Angle pair warmup problems

1. *Complementary* angles sum to how many degrees?
2. *Supplementary* angles sum to how many degrees?
3. Given complementary angles $\angle A$ and $\angle B$ with $m\angle A = 30^\circ$. Find $m\angle B$.
4. Given $m\angle A = 100^\circ$ and $m\angle B = 2x$. Find x such that angles $\angle A$ and $\angle B$ are supplementary.
5. Given vertical angles as shown. Find x .

