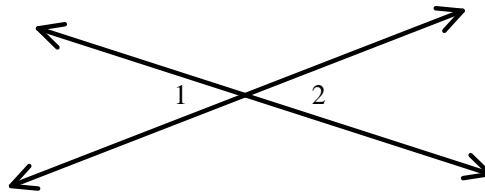


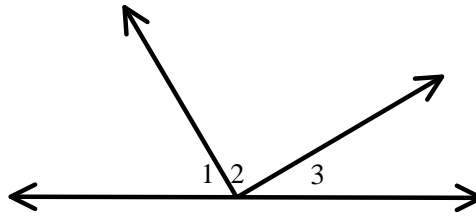
Proving Statements about Angles

Directions: Find the measure of each numbered angle.

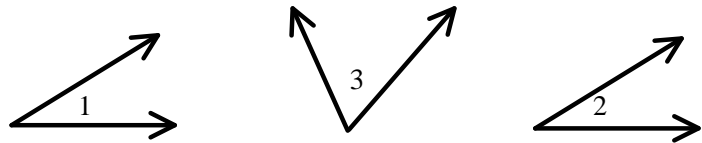
1. $m\angle 1 = 3x - 14$
 $m\angle 2 = 2x - 7$



2. $m\angle 1 = 5x$
 $m\angle 2 = 3x + 30$
 $m\angle 3 = 2x + 10$

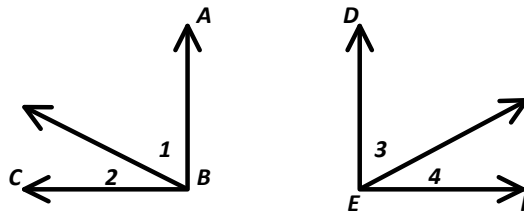


3. $\angle 1$ and $\angle 3$ are complementary
 $\angle 2$ and $\angle 3$ are complementary
 $m\angle 1 = 2x + 2$
 $m\angle 2 = x + 32$



Directions: Write a two-column proof.

4. Given: $m\angle ABC = m\angle DEF$
 $m\angle 1 = m\angle 3$
 Prove: $m\angle 2 = m\angle 4$



5. Given: $\angle ABD$ and $\angle CBD$ form a linear pair
 $\angle EFH$ and $\angle GFH$ form a linear pair
 $\angle ABD \cong \angle EFH$
 Prove: $\angle CBD \cong \angle GFH$

