Angle Relationships classwork

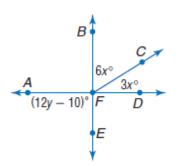
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	Adjacent angles: angles in a plane that have a commonan	iu a	
	common, but no common interior points. Please draw an example:	se draw an	
•	<i>Linear pair</i> : adjacent angles whose non-common sides are opposites ra Please draw an example:	ıys.	
•	Vertical angles: two nonadjacent angles formed by two intersecting lines Please draw an example:	s.	

KeyConcept Angle Pair Relationships			
Vertical angles are congruent. Examples $\angle ABC \cong \angle DBE$ and $\angle ABD \cong \angle CBE$	A B C E		
 Complementary angles are two angles with measures that have a sum of 90. Examples ∠1 and ∠2 are complementary. ∠A is complementary to ∠B. 	1 2 $A 65^{\circ}$ $B 25^{\circ}$		
 Supplementary angles are two angles with measures that have a sum of 180. Examples ∠3 and ∠4 are supplementary. ∠P and ∠Q are supplementary. 	3 4 <i>P</i> 120° <i>Q</i> 60°		
The angles in a linear pair are supplementary. Example $m \angle 1 + m \angle 2 = 180$	1 2		

<u>Ex #1</u>: Find the measures of two complementary angles if the difference in the measures of the two angles is 12.

<u>Ex #2</u>: Find x and y so that \overrightarrow{BE} and \overrightarrow{AD} are perpendicular.



Perpendicular Lines: lines that intersect to form right angles. The symbol is: \perp

<u>Ex#3:</u> Find x and y so that \overrightarrow{PR} and \overrightarrow{SQ} are perpendicular.

