Perpendicular Lines, Complementary, Supplementary, and Right Angles Practice #4 Day 1 Two angles whose measures add up to 180° are called Supplementary Angles. They can also be called a linear pair if together they form a straight angle. Two angles whose measures add up to 90° are Complementary Angles. В 40° 50° In the diagram above, Use the figure on the right to name each of the following. 1. Name a pair of complementary angles. < LMQ and < @ MP are compl. 2. Name a pair of supplementary angles. < PMQ and LQMN are suppl. 3. Name a different pair of supplementary angles. Cambond Lamo are suppl. 4. Name a linear pair. Find the measure of each angle 7. 6. 124 8. Find the measure of each angle in the diagram. ∠DAB is a right angle ∠ ADE is a right angle ∠1 = 53° $m \angle 1 = m \angle 12$ $Z3 = 55^{\circ}$ 588 $25 = 88^{\circ}$ $m \angle 4 = m \angle 9$ < 7 = Vertical (7=88) \angle ABE = 100° \angle DEB = 80° ·49= 35°

410=100-35=65

9) $\angle 1$ and $\angle 2$ are complementary. $m\angle 1 = 2x + 7$ and $m\angle 2 = 4x - 19$. Find the measure of each angle.

$$<1+<2=90$$
 def of compl.
 $2x+7+4x-19=90$ $x=17$
 $6x=102$

of compl.
$$|2| = 2(11) + 7$$

 $|2| = 4(11) - 19$
 $|2| = 4(11) - 19$
 $|2| = 4(11) - 19$

10) $\angle 3$ and $\angle 4$ are supplementary. $m\angle 3 = 5x + 22$ and $m\angle 4 = 7x + 2$. Find the measure of each angle.

$$<3+<4=180$$

 $5x+22+7x+2=180$
 $12x+24=180$
 $12x=156$
 $x=13$

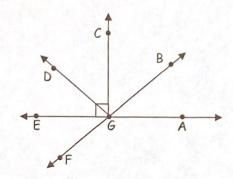
$$43 = 5(13) + 22$$
 $4 = 7(13) + 2$
 $4 = 93$

11) Use the diagram on the right to name:

a) two complementary angles < EGD and < DGC.

One compl.

b) a linear pair



c) two adjacent angles

< FGD and L'DGC are adjacent
but there are MANY
more >