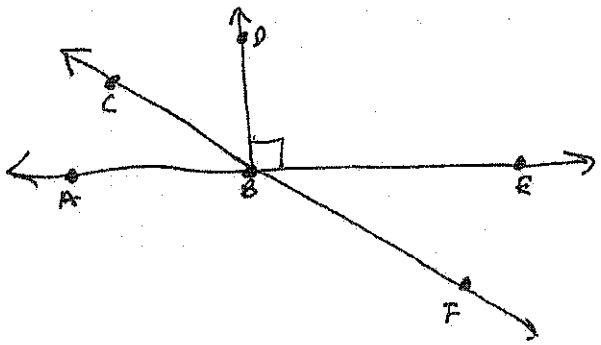
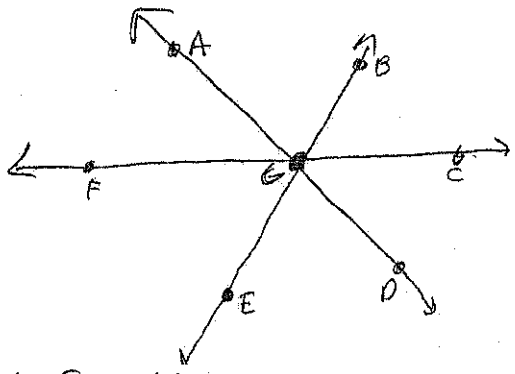
Math 1 7.5 Review name: Key

1. Name an angle complementary to ∠ABC. ∠CBD

2. Name an angle supplementary to ∠ABC. ∠CBE or ∠ABF



3. Name the vertical angle pairs in the image below.

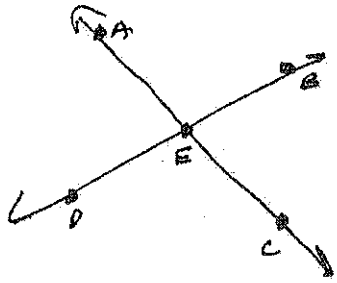


∠AGF and ∠CGD
∠AGB and ∠EGD
∠BGE and ∠EGF

4. Using the same image as 3: name two adjacent angles to ∠EGD.

∠DGC
∠EGF

5. State whether each statement is true or False.



∠AEB and ∠AED are vertical angles. F

∠BEC and ∠AED are vertical angles. T

∠AEB and ∠DEC are a linear pair. F

6. ∠ABC and ∠DEF are a Supplementary angles.
$m\angle ABC = 4x + 10$ and $m\angle DEF = 6x + 20$.
What are the degree measures of each angle.

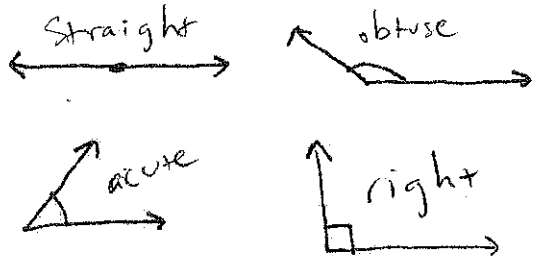
$4x + 10 + 6x + 20 = 180$
$10x + 30 = 180$
$10x = 150$
$x = 15$
$\angle ABC = 4(15) + 10 = 70^\circ$
$\angle DEF = 6(15) + 20 = 110^\circ$

7. The complement of an angles is 20°. What is the measure of that angle?

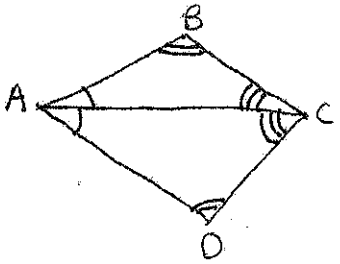
$90 - 20 = 70^\circ$

Math 4 7.4 Review Name: Key

1. Classify each of the following angles.



2. Complete the statements using the image below.

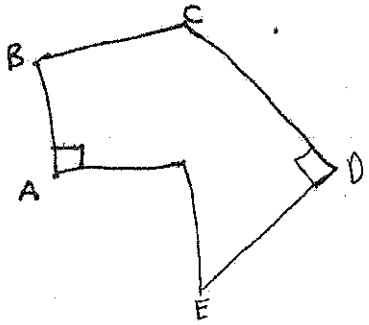


$\angle B \cong \angle D$

$\angle BAC \cong \angle DAC$

$\angle DCA \cong \angle BCA$

3. Classify each of the angles in the picture.



$\angle A$ right

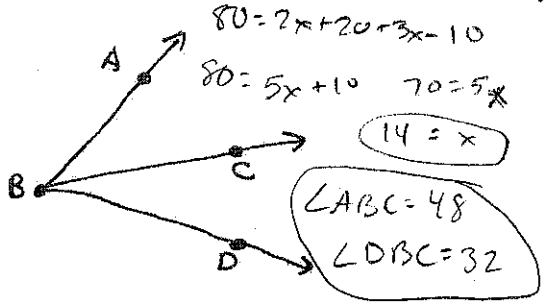
$\angle B$ obtuse

$\angle C$ obtuse

$\angle D$ right

$\angle E$ acute

4. If $m\angle ABD = 80°$; $m\angle ABC = 2x+20$ and $m\angle DBC = 3x-10$. Find the degree measure of $\angle ABC$ and $\angle DBC$



$80 = 2x+20+3x-10$

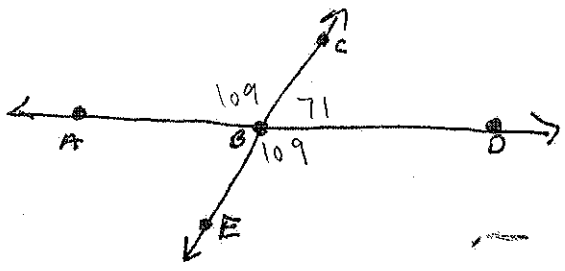
$80 = 5x+10$ $\quad 70 = 5x$

$14 = x$

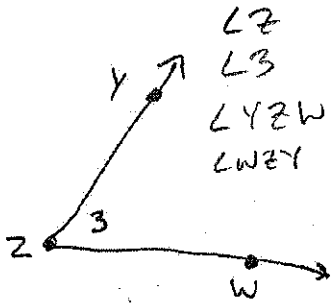
$\angle ABC = 48$

$\angle DBC = 32$

5. If $m\angle ABC = 109$, then what are measures $\angle DBC$ and $\angle EBD$?



6. What are four names for the angle below.



$\angle Z$

$\angle 3$

$\angle YZW$

$\angle WZY$

7. $\angle A$ and $\angle B$ are complementary angles. $m\angle A = 3x$ and $m\angle B = 2x-10$. What are the degree measures of $\angle A$ and $\angle B$?

$3x+2x-10=90$

$5x=100$

$x=20$

$\angle A = 60$

$\angle B = 30$