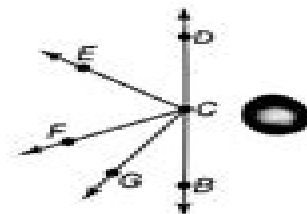


11. Classify $\angle DCF$ as right, acute, or obtuse.

Obtuse

12. In the figure, $\overrightarrow{CB}$ and $\overrightarrow{CD}$ are opposite rays, $\overrightarrow{CE}$ bisects $\angle DCF$, and $\overrightarrow{CG}$ bisects $\angle FCB$.
If $m\angle DCE = 4x + 15$ and $m\angle ECF = 6x - 5$, find $m\angle DCE$.

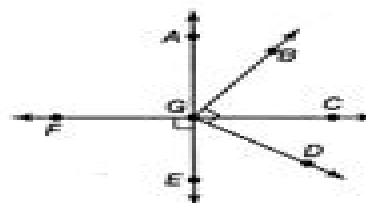
$$\begin{aligned} 4x + 15 &= 6x - 5 \\ 20 &= 2x \\ 10 &= x \end{aligned} \quad m\angle DCE = 40 + 15 = 55$$



(For numbers 11 & 12)

13. If $m\angle FGE = 5x + 10$, find the value of x so that $\overrightarrow{FC} \perp \overrightarrow{AE}$.

$$\begin{aligned} 5x + 10 &= 90 \\ 5x &= 80 \\ x &= 16 \end{aligned}$$



14. Name an angle or angle pair that satisfies each condition.

a. Name two obtuse vertical angles.

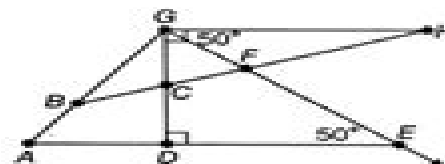
$\angle GFH, \angle CFE$

b. Name a linear pair with vertex B.

$\angle GBC, \angle ABC$

c. Name an angle adjacent and supplementary to $\angle DCB$.

$\angle BCG$



Chapter 2 Review

Make a conjecture about each value or geometric relationship.

1. $\angle ABC$ is a right angle

$$m\angle ABC = 90^\circ$$

2. Point S is between R and T

$$RS + ST = RT$$

Make a conjecture about the next item in each sequence.

3. 5, -10, 15, -20

$$+25$$

4. $-2, 1, -\frac{3}{2}, \frac{1}{4}, -\frac{1}{8}$

$$\frac{1}{16}$$

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