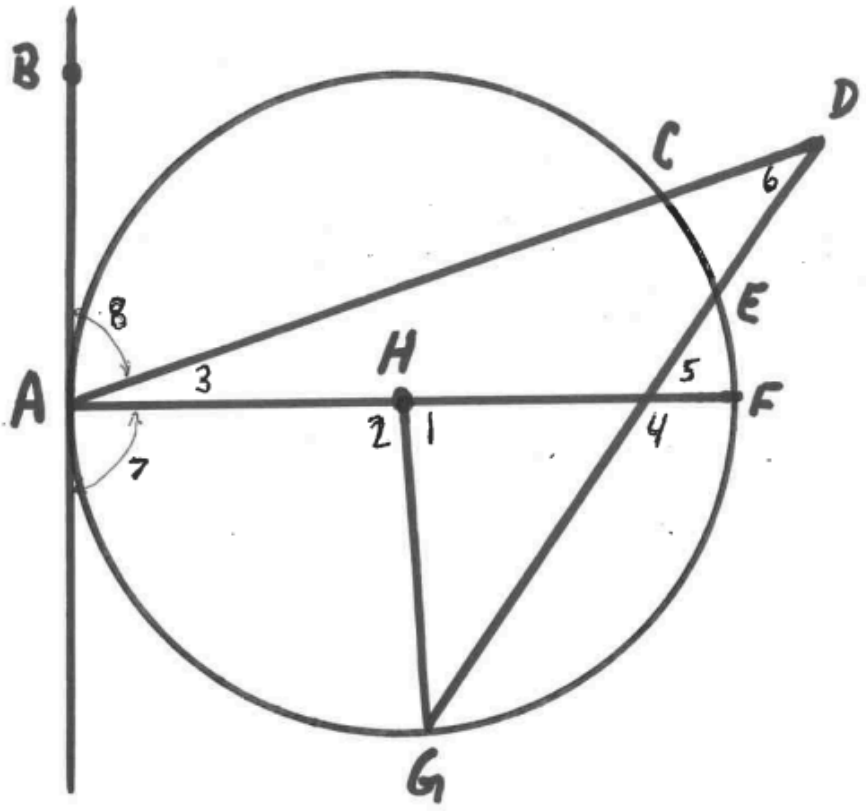
Circles and Angles Answers Name_____
Period_____

Find the value of the numbered angles in this diagram.

$\overleftrightarrow{AB}$ is tangent to $\odot$H. $\overline{AF}$ is a diameter.

$m\overset{\frown}{AG}=100^{o}$; $m\overset{\frown}{CE}=30^{o}$; $m\overset{\frown}{EF}=25^{o}$



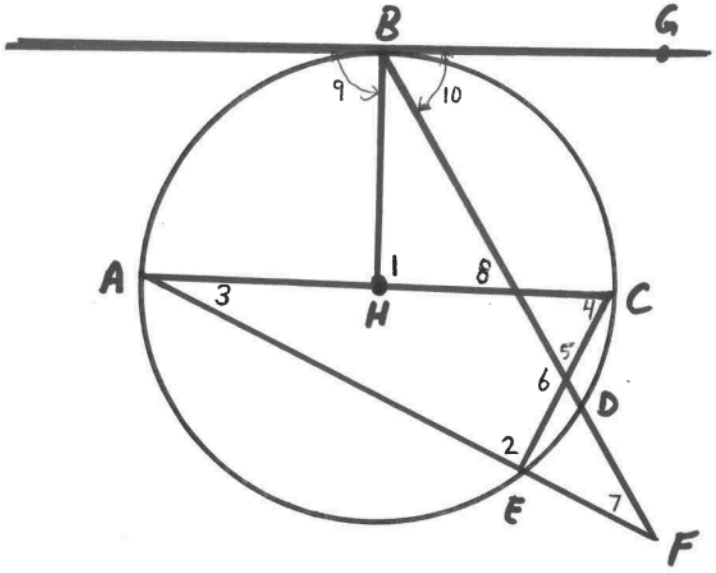
1. 80
2. 100
3. 27.5
4. 117.5
5. 62.5
6. 35
7. 90
8. 62.5

Circles Review Answers Name _____
Period _____

Part 1. Solve for all of the angles in the diagram.

$\overleftrightarrow{BG}$ is tangent to $\odot$H. $\overline{AC}$ is a diameter.

$m\overset{\frown}{BC}=90^o$; $m\overset{\frown}{CD}=30^o$; $m\overset{\frown}{DE}=20^o$



Part 2. Use the answers from the diagram as the values for each poster.

Angle/Poster	Angle Measure	Poster Answer
1	90	6π cm
2	90	36π cm^2
3	25	$\frac{5\pi}{36}$ $radians$
4	65	$(x-2)^2 + (y+3)^2=4225$
5	55	X = -12 or x = 4
6	125	$(x+2)^2 + (y-5)^2 = 154$
7	35	70π
8	60	900π
9	90	X = $3\sqrt{10}$
10	60	(5, -60)

Circles Review Answers Name _____
Period _____