PINK

$∠1$ and $∠2$ are straight angles

 $m∠1=180°$

$∠1$ and $∠2$ are

straight angles

 $m∠2=180°$

$$m∠1=180°$$

 $m∠1=m∠2$

$$m∠2=180°$$

$m∠1=m∠2$ $∠1≅∠2$

YELLOW

$45°+m∠B=180°$ $m∠B=135°$ $m∠A=45°$

$$m∠A=45°$$

 $45°+m∠B=180°$ $∠A$ and $∠B $are

$m∠A+m∠B=180°$ Supplementary

$∠A$ and $∠B $are $m∠A+m∠B=180°$

supplementary

$45°+m∠B=180°$ $m∠B=135°$ $m∠A=45°$

$$m∠A=45°$$

 $45°+m∠B=180°$ $∠A$ and $∠B $are

$m∠A+m∠B=180°$ Supplementary

$∠A$ and $∠B $are $m∠A+m∠B=180°$

supplementary

GREEN

$$\overbar{AB}≅\overbar{BC}$$

 $\overbar{BC}≅\overbar{EF}$ $\overbar{AB}≅\overbar{EF}$

$$\overbar{AB}≅\overbar{EF}$$

B is the midpoint B is the midpoint

of $\overbar{AC}$ $\overbar{AB}≅\overbar{BC}$ of $\overbar{AC}$

$$\overbar{AB}≅\overbar{BC}$$

 $\overbar{BC}≅\overbar{EF}$ $\overbar{AB}≅\overbar{EF}$

$$\overbar{AB}≅\overbar{EF}$$

B is the midpoint B is the midpoint

of $\overbar{AC}$ $\overbar{AB}≅\overbar{BC}$ of $\overbar{AC}$

BLUE

$$∠1≅∠2$$

 $∠2≅∠3$ $∠1≅∠3$

$$∠1≅∠3$$

$\vec{HJ}$ is the angle $∠1≅∠2$ $\vec{HJ}$ is the angle

Bisector of $∠IHK$ Bisector of $∠IHK$

$$∠1≅∠2$$

 $∠2≅∠3$ $∠1≅∠3$

$$∠1≅∠3$$

$\vec{HJ}$ is the angle $∠1≅∠2$ $\vec{HJ}$ is the angle

Bisector of $∠IHK$ Bisector of $∠IHK$