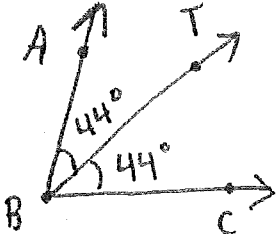
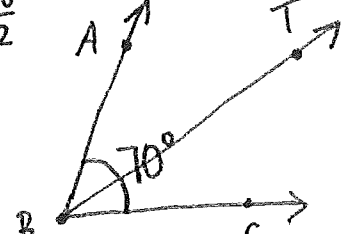


Simultaneous Round Table

Name _____

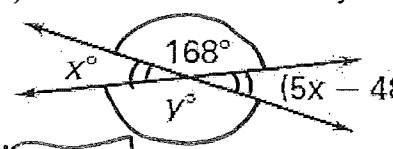
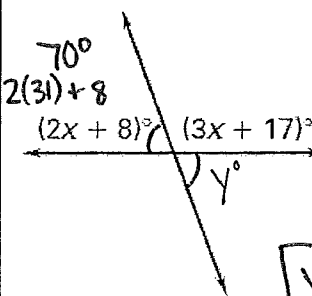
Everyone has a Paper—Work at the Same Time—Pass at the Same Time

1) Find the distance between the two points. $A(-7, 2)$ $B(3, 0)$ $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ $= \sqrt{(-7 - 3)^2 + (2 - 0)^2}$ $= \sqrt{(-10)^2 + (2)^2}$ $= \sqrt{100 + 4}$ $= \sqrt{104} \approx 10.2 \text{ units}$ $AB = \sqrt{104} = 2\sqrt{26}$ ≈ 10.2	2) Find the midpoint of the two points below. $A(-7, 2)$ $B(3, 0)$ $m = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$ $= \left(\frac{-7 + 3}{2}, \frac{2 + 0}{2} \right)$ $= \left(-\frac{4}{2}, \frac{2}{2} \right)$ midpoint: $(-2, 1)$
3) $\overrightarrow{BT}$ bisects $\angle ABC$. If $m\angle ABT = 44^\circ$, find $m\angle TBC$ and $m\angle ABC$.  $m\angle TBC = 44^\circ$ $m\angle ABC = 88^\circ$	4) $\overrightarrow{BT}$ bisects $\angle ABC$. If $m\angle ABC = 70^\circ$, find $m\angle TBC$ and $m\angle ABT$. $35^\circ = \frac{70}{2}$  $m\angle TBC = 35^\circ$ $m\angle ABT = 35^\circ$

Simultaneous Round Table

Name _____

Everyone has a Paper—Work at the Same Time—Pass at the Same Time

5) $\angle A$ and $\angle B$ are supplementary. Find the $m\angle A$ and $m\angle B$. $m\angle A = 40$ $m\angle B = 3x + 20$ $40 + 3x + 20 = 180$ $60 + 3x = 180$ $3x = 120$ $x = 40$ $m\angle A = 40^\circ$ $m\angle B = 140^\circ$	6) Find the value of x and y.  $168 + x = 180$ $x = 12$ $y = 168$
7) Find the values of x and y.  $2x + 8 + 3x + 17 = 180$ $5x + 25 = 180$ $5x = 155$ $x = 31$ $y = 70$	8) $\angle A$ and $\angle B$ are complementary. Find the $m\angle A$ and $m\angle B$. $m\angle A = 2x + 10$ $m\angle B = 3x$ $2x + 10 + 3x = 90$ $5x + 10 = 90$ $5x = 80$ $x = 16$ $m\angle A = 42^\circ$ $m\angle B = 48^\circ$

$$m\angle A = 2(16) + 10 \rightarrow 42^\circ$$