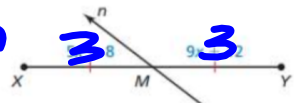
Bell Ringer

Wednesday 12/11

Identify the segment bisector of $\overline{XY}$. Then find *XY*.



line n

$5x+8 = 9x+12$

$-5x \quad -5x$

$-4 = 4x$

$-1 = x$

$XY = 6$

$\overline{XY} = 6$

The endpoints of $\overline{CD}$ are given. Find the midpoint M.

$C(-4, 7)$ and $D(0, -3)$

$x_1, y_1 \quad x_2, y_2$

$\left(\frac{-4+0}{2}, \frac{7+(-3)}{2}\right)$

$(-2, 2)$

The midpoint M and one endpoint of $\overline{GH}$ are given. Find the coordinates of *G*.

$H(-3, 7)$ and $M(-2, 5)$

$G(-1, 3)$

$\frac{3+x}{2} = -2 \quad \frac{7+y}{2} = 5$

$-3+x = -4 \quad 7+y = 10$

$+3 \quad +3 \quad -7 \quad -7$

$x = -1 \quad y = 3$

Find the distance between the two points.

$G(-5, 4)$ and $H(2, 6)$

$x_1, y_1 \quad x_2, y_2$

$d = \sqrt{(2+5)^2 + (6-4)^2}$

$= \sqrt{(7)^2 + (2)^2}$

$= \sqrt{49+4}$

$= \sqrt{53}$

≈ 7.28

$\sqrt{49+4} = \sqrt{49} + \sqrt{4}$

$\sqrt{53} = 7.28$ $\quad 7 + 2 = 9$

8.2 online hw due today

8.3 online hw due tomorrow

Ch 6 Test retakes due Tues 12/17
Hand back tests...

The endpoints of AB are A(1, 8) and B(-3, 4). Find the midpoint M

$\left(\frac{1+-3}{2}, \frac{8+4}{2}\right)$

$\left(\frac{-2}{2}, \frac{12}{2}\right)$

$(-1, 6)$

The midpoint of XY is M(3, -5). The endpoint X is at (-3, -7). Find the coordinates of Y. (9, -3)

$\frac{-3+x}{2} = 3$ · 2

$-3+x=6$

$x=9$

$\frac{-7+y}{2} = -5$

$-7+y=-10$

$y=-3$

Find the distance between the points J(2, -8) and K(-5, 4)

$$\sqrt{(-5-2)^2+(4+8)^2}$$

$$\sqrt{(-7)^2+(12)^2}$$

$$\sqrt{49+144}$$

$$\sqrt{193}$$

Quiz on 8.2-8.3

NO PHONES :)

When finished:

Double check answers

Turn in the basket

Finish missing hw

Read