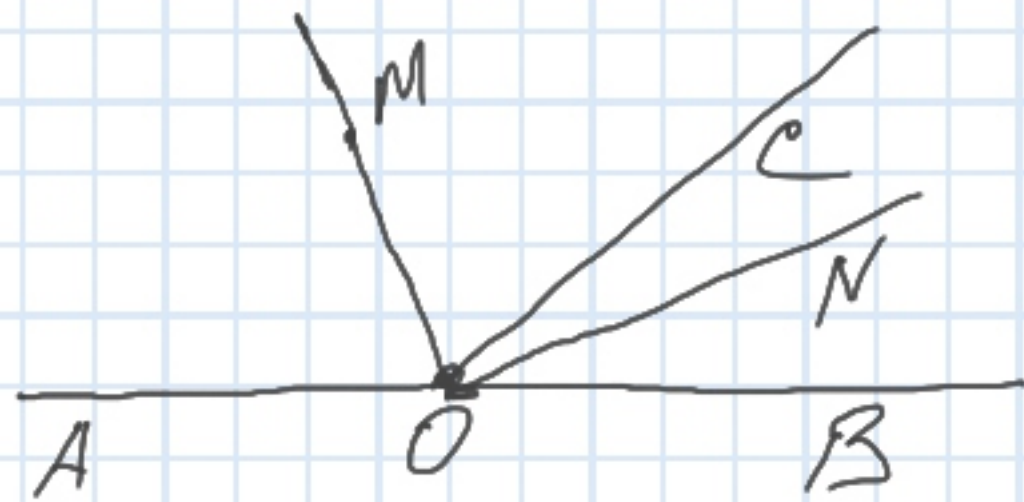


HW 14.

#1.



$$\angle AOC + \angle COB = 180^\circ.$$

$$\angle AOM = \angle MOC$$

$$\angle CON = \angle NOB.$$

$$\begin{aligned}\angle MOC + \angle CON &= \frac{1}{2} \angle AOC + \frac{1}{2} \angle COB \\ &= \frac{1}{2} (\angle AOC + \angle COB) = \frac{1}{2} \cdot 180^\circ = 90^\circ.\end{aligned}$$

#2.

$$2 + 3 = 5.$$

$$180 : 5 = 36.$$

$$\text{One angle is } 36 \cdot 2 = 72$$

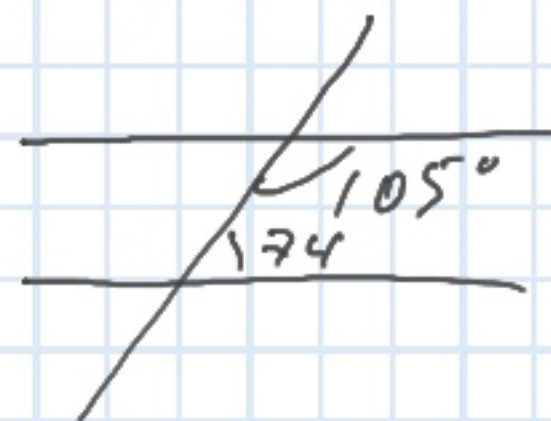
$$\text{Another is } 36 \cdot 3 = 108.$$

# 3.

a.  $\angle AOB + \angle BOC = 134^\circ + 43^\circ = 180$ , yes.

b.  $\angle AOB + \angle BOC = 65^\circ + 116^\circ = 181$  NO.

# 4.



$105 + 74 = 179$ . NO, lines are not parallel.

# 5.  $V = M + 0.$

$0.46 V$  like  $\Gamma$ .

$$0.46 V = M + 0.10.$$

$$0 = V - M.$$

$$0.46 V = M + 0.1 V - 0.1 M = 0.9 M + 0.1 V$$

$$0.46 V - 0.1 V = 0.9 M$$

$$0.36 V = 0.9 M.$$

$$M = \frac{0.36}{0.9} V = 0.4 V$$

or  $40\%$

#6.

$$\left( (2.5 - 0.75) \cdot \frac{4}{7} + \left( 3\frac{3}{8} - 2\frac{11}{12} \right) \cdot \frac{1}{9} + 2\frac{11}{12} \cdot \frac{1}{9} \right) : \left( 3.5 : 2\frac{1}{3} \right)$$

$$1. \quad 3.5 : 2\frac{1}{3} = \frac{35}{10} : \frac{7}{3} = \frac{7}{2} : \frac{7}{3} = \frac{7}{2} \cdot \frac{3}{7} = \frac{3}{2}$$

$$2. \quad \left( 3\frac{3}{8} - 2\frac{11}{12} \right) \cdot \frac{1}{9} + 2\frac{11}{12} \cdot \frac{1}{9} = \frac{1}{9} \left( 3\frac{3}{8} - 2\frac{11}{12} + 2\frac{11}{12} \right) =$$

$$= \frac{1}{9} \cdot 3\frac{3}{8} = \frac{16}{9} \cdot \frac{27}{8} = \frac{8 \cdot 2 \cdot 3 \cdot 9}{9 \cdot 8} = 6.$$

$$3. \quad (2.5 - 0.75) \cdot \frac{4}{7} = 1.75 \cdot \frac{4}{7} = 1\frac{3}{4} \cdot \frac{4}{7} = \frac{7}{4} \cdot \frac{4}{7} = 1.$$

$$4. \quad 1 + 6 : \frac{3}{2} = 1 + 6 \cdot \frac{2}{3} = 1 + 4 = 5.$$



