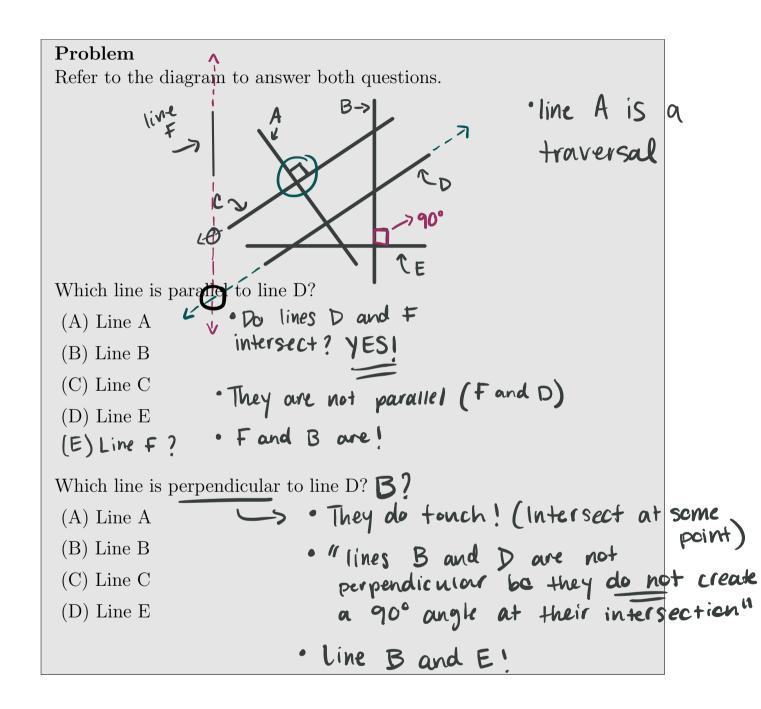
ABX 0100 - ABE Math M4 - Geometry

Topics to review:

• Parallel and perpendicular lines



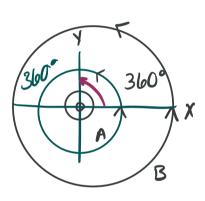
Parallel lines

- Need 2 lines to decide if
 they are parallel (pair)
 Comparison
- They never intersect
 Do not touch, cross paths, overlap, etc.
- · 目 Train tracks == side by side

·lines
ove
ove
obstract
objects

infinitely

* "Extend infinitely w/out * ever touching"?



Full circle \Rightarrow 360° $\stackrel{\bullet}{\rightarrow}$ Multiplying fractions

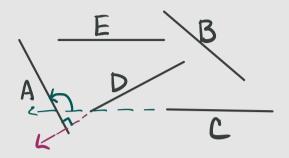
• Half circle \Rightarrow 180° $\stackrel{\bullet}{\rightarrow}$ fractions

• 1/4 of a circle \Rightarrow 360° = 90° & whole numbers

• 360 = $\frac{1 \cdot 360}{4}$ = $\frac{360}{4}$ $\stackrel{\bullet}{\rightarrow}$ $\frac{1}{4} \cdot 360$ $\stackrel{\bullet}{\rightarrow}$ $\frac{360}{4}$ = $\frac{360}{4}$ $\stackrel{\bullet}{\rightarrow}$ $\frac{36$

Problem 2

Refer to the diagram to answer both questions. Note that the end points of a line can be extended infinitely in opposite directions.



Which line is perpendicular to line A?

- (A) Line B
- · Intersect, 90°
- (B)Line C
- C Line D
- (D) Line E

Which line is parallel to line C?

- (A) Line A
- (B) Line B
- (C) Line D
- D Line E

Topics to review:

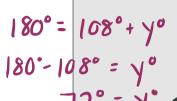
- ·Acute
- Angles, parallel lines, and traversals
- ·Obtuse

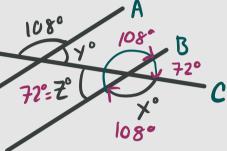
• Missing angles with a traversal

Problem

Refer to the diagram to answer all 3 questions.

lines A and B are paralle







What is the measure of angle \mathbf{x} ?

x is an obtuse angle





What is the measure of angle y?

(A)
$$180^{\circ}$$

(C)
$$108^{\circ}$$

What is the measure of angle \mathbf{z} ?

(A)
$$180^{\circ}$$

(B)
$$90^{\circ}$$

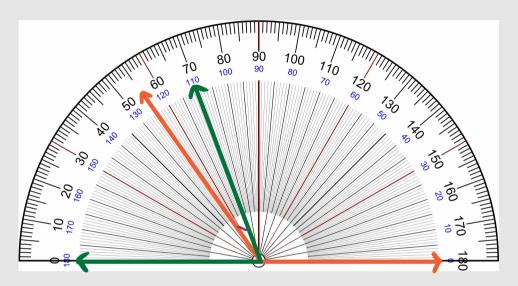
(C)
$$108^{\circ}$$

Topics to review:

• Using a protractor to measure angles

Problem

Refer to the image when answering the questions.



What is the measure of the **orange angle**?

- (A) 55°
 - (B) 145°
- (C) 65°
- (D) 125°

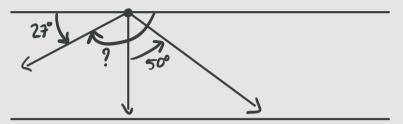
- (A) 180°
- (C) 95°
- (D) 110°

Topics to review:

• Solving for unknown angles

Problem

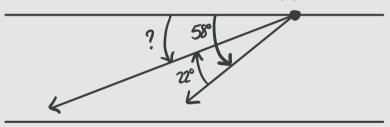
Refer to the diagram to answer question (1).



What is the measure of the unknown angle?

- (A) 177°
- (B) 66°
- (C) 95°
- (D) 153°

Refer to the diagram to answer question (2).



What is the measure of the unknown angle?

- (A) 100°
- (B) 22°
- (C) 45°
- (D) 36°