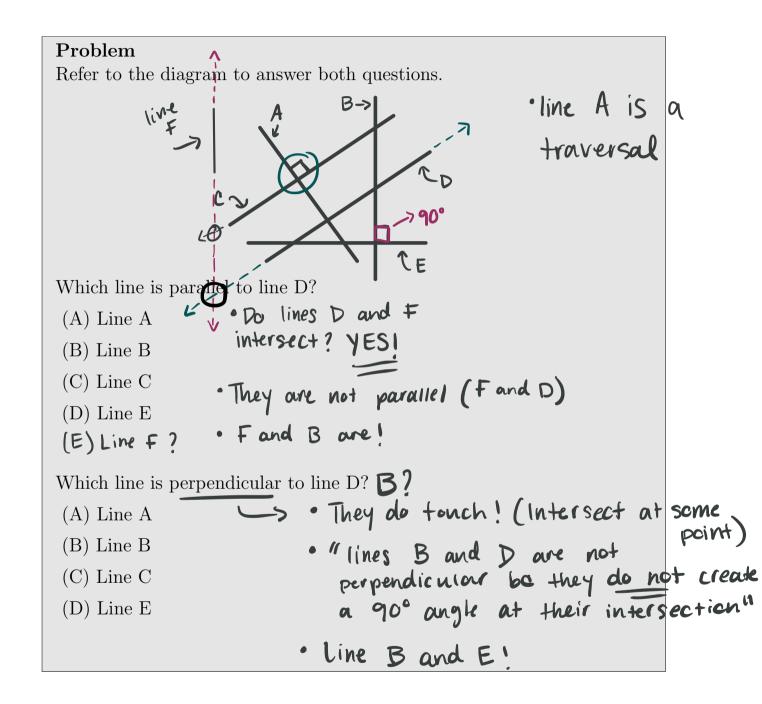
ABX 0100 - ABE Math M4 - Geometry

### 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

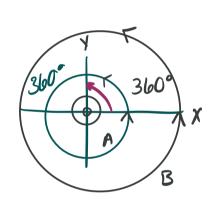
infinitely

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

· Multiply ing

fractions

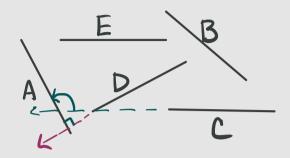
& whole numbers



- · Full circle -> 360°
- · Half circle > 180°
- $\frac{1}{4}$  of a circle  $\Rightarrow \frac{360}{4} = 90^{\circ}$   $\frac{1}{4} \cdot 360 = \frac{1 \cdot 360}{4} = \frac{360}{4} \Rightarrow \frac{1}{4} \cdot 360 = \frac{1}{4} \cdot 360 \Rightarrow \frac{1}{4} \Rightarrow \frac{1}{4} \cdot 360 \Rightarrow \frac{1}{4} \Rightarrow \frac{1}{4} \cdot 360 \Rightarrow \frac{1}{4} \Rightarrow \frac{1$
- $\frac{1}{4} \cdot \frac{360}{1} = \frac{360}{4}$

### 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°
- <del>(B)</del>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:

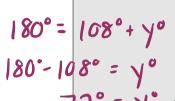
- ·Acute
- Angles, parallel lines, and traversals
- ·Obtuse

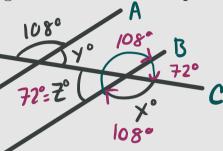
• Missing angles with a traversal

#### 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



 $(C) 108^{\circ}$ 





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) 
$$90^{\circ}$$

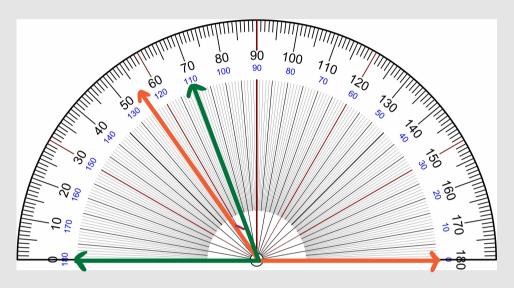
(C) 
$$108^{\circ}$$

# 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**?

- <del>(A)</del> 55°
  - (B)  $145^{\circ}$
- <del>(C)</del> 65°
- (D)  $125^{\circ}$

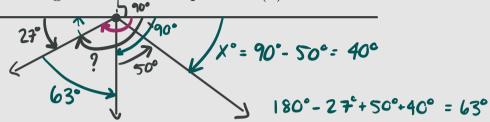
- (A)  $180^{\circ}$
- B 70°
- (C)  $95^{\circ}$
- (D)  $110^{\circ}$

## Topics to review:

• Solving for unknown angles

#### Problem

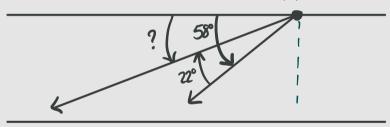
Refer to the diagram to answer question (1).



What is the measure of the unknown angle?

- (A)  $177^{\circ}$
- 63+50+40 = 153°
- (B) 66°
- (C)  $95^{\circ}$
- (D) 153°
- 180° 27° = 153°

Refer to the diagram to answer question (2).



What is the measure of the unknown angle?

- $(A) 100^{\circ}$
- " 1ess than 90°"
- (B) 22°
- "less than 580"
- (C)  $45^{\circ}$
- 58 22 = 36°

D 36°