Announcements 11/23/21

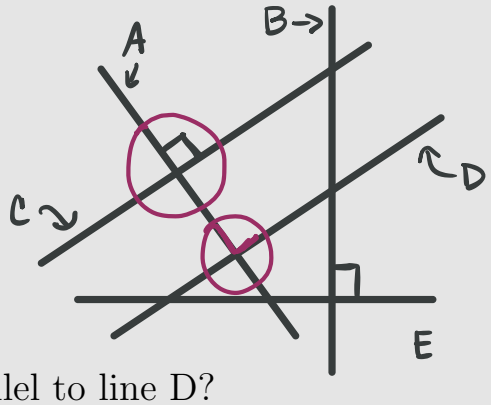
- No class this Thursday 11/25/21
- End of semester: 12/15/21
- Please check your email - I will be sending your attendance hours as of today.
    * Aiming for at least 70 hours before retesting
    * At minimum: 40 hours needed to retest at the end of semester (12/13 - 12/15)
    * Are you retesting in additional subjects?

Topics to review:

- Parallel and perpendicular lines

Problem

Refer to the diagram to answer both questions.



Which line is parallel to line D?

(A) Line A

(B) Line B

(C) Line C

(D) Line E

Which line is perpendicular to line D?

(A) Line A

(B) Line B

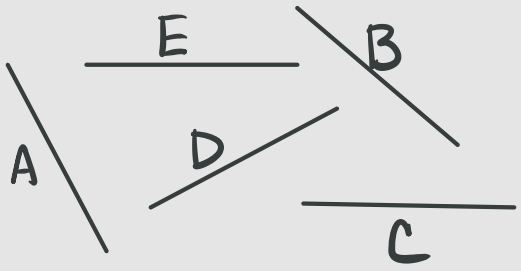
(C) Line C

(D) Line E

- parallel lines and traversals

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

(B) Line C

(C) Line D

(D) Line E

*lines extend infinitely in opposite directions

Which line is parallel to line C?

(A) Line A

(B) Line B

(C) Line D

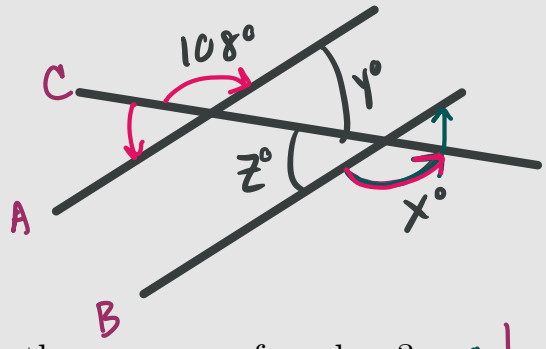
(D) Line E

Topics to review:

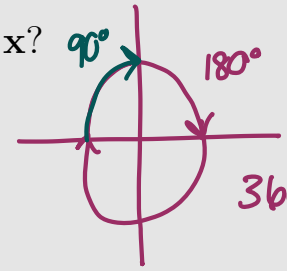
- Angles, parallel lines, and traversals
- Missing angles with a traversal

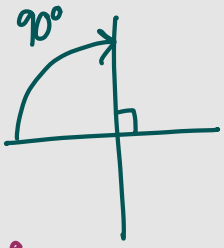
Problem

Refer to the diagram to answer all 3 questions.



- Lines A and B are parallel
- Line C intersects both A and B





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

~~(A) 180°~~

~~(B) 90°~~

(C) 108°

~~(D) 72°~~

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

(A) 180°

(B) 90°

(C) 108°

(D) 72°

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

(A) 180°

(B) 90°

(C) 108°

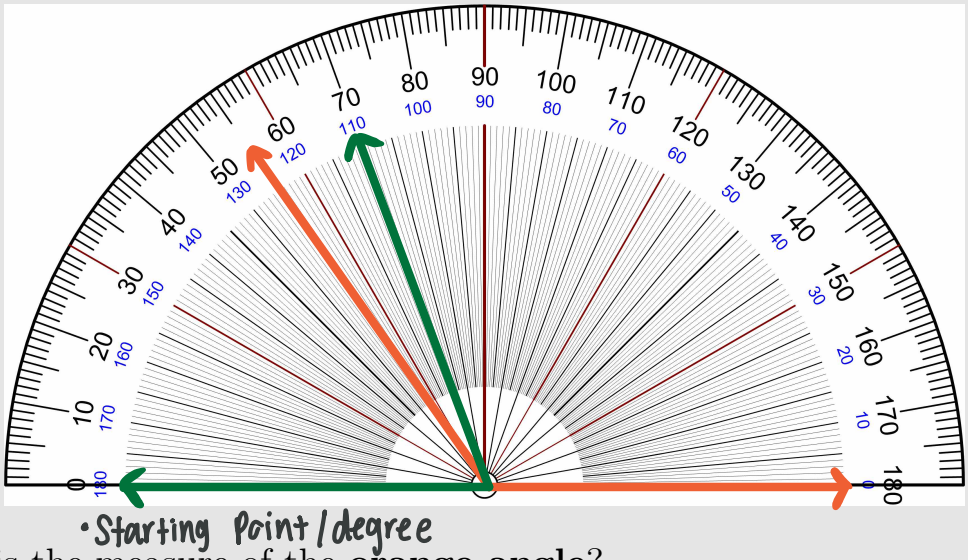
(D) 72°

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°

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

(A) 180°

(B) 70°

(C) 95°

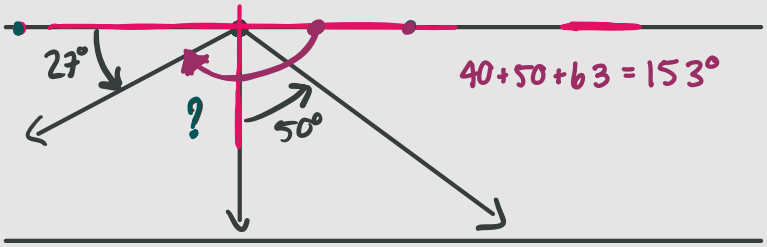
(D) 110°

Topics to review:

- Solving for unknown angles

Problem

Refer to the diagram to answer question (1).



What is the measure of the unknown angle?

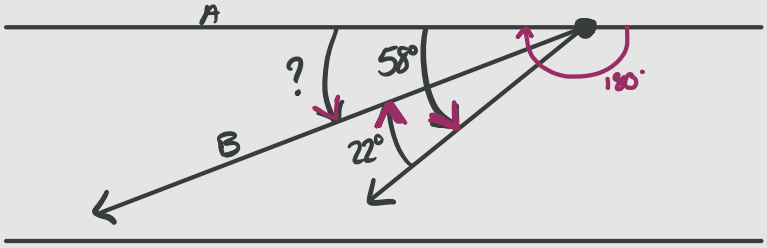
(A) 177°

(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°

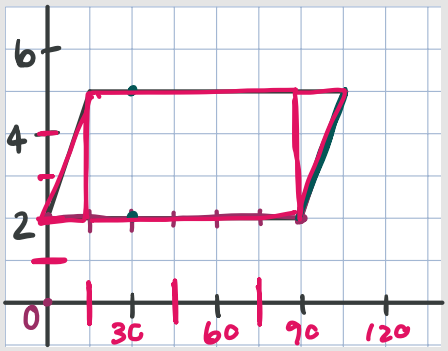
(C) 45°

(D) 36°

Problem 5

Use the diagram to answer the question. What is the area of the quadrilateral?

(A) 24 square units
(B) 20 square units
(C) 18 square units
(D) 16 square units

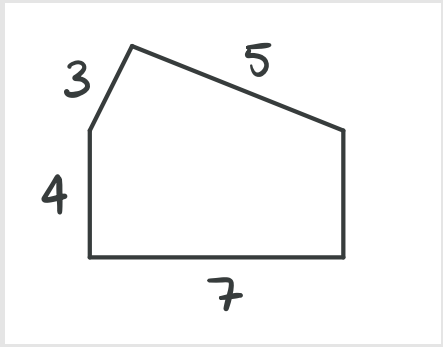


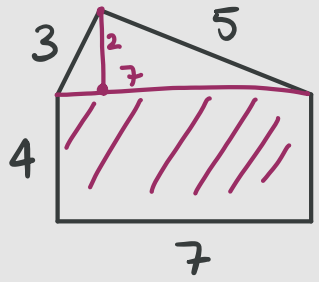
Area = Base · Height
$A = b \cdot h$
$A = 6 \cdot 3 = 18$

Triangle: $\frac{1}{2}(b \cdot h)$

Which of the following is the closest estimate of the area of the pentagon?

~~(A) 44 square feet~~
(B) 33 square feet
~~(C) 41 square feet~~
(D) 36 square feet





$= \frac{1}{2}(7 \cdot 2) = 7$

Triangle Area: $\frac{1}{2}(b \cdot h)$

Rectangle Area: $l \cdot w$
$= 4 \cdot 7$
$= 28$

$28 + 7 = 35$

~~$\frac{1}{2}(7 \cdot 3)$~~
~~$= 10.5$~~

Problem 6

A firetruck ladder can extend 102 feet. How could this length be converted to yards?

(A) Divide 102 by 36
(B) Divide 102 by 3
~~(C) Multiply 102 by~~ 3
~~(D) Multiply 102~~ times 12

3 ft = 1 yd = 3 · 12 inches
= 36 inches

3 > 1

#ft > #yd
102 > 34 yd