



Singapore Math L4

Unit 6 ANGLES & Unit 7 PERPENDICULAR AND PARALLEL LINES

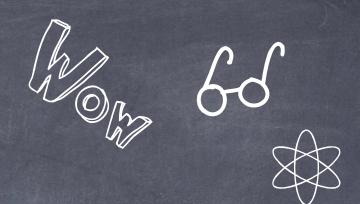
Instructor: Franky Chan







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Introduction

Instructor's Self-introduction

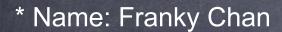






01.Introduction

Instructor's Self-introduction



* Background:

High School: 2019-2022, BBA, Jiangsu Province

Undergraduate: 2022-present, CUHK-sz, DSBDT

* Contact:

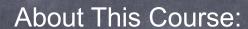
Phone/WeChat: 13338782251

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Meeting number: # We Meet: 531-152-830





- * Go over what we have learnt
- * Weekly check the homework
- * Find interest through learning
- * Expand our thinking mode
- * Relection and improvement
- # NO EXTRA TUTORIALS!
 Don't hesitate to contact me if
 necessary at any time!





O2

Review

Go Over The Knowledge







02.Review

Go Over The Knowledge

LEARNING TARGET

ANGLES

*name angles.

*measure and draw angles in degrees with the use of a protractor.

LINES

*draw and identify perpendicular and parallel lines.

Unit 6

*relate a turn with degrees up to 360°.

*understand 8-point compass.

Unit 7

*identify vertical and horizontal lines.



Go Over The Knowledge



1) How to name an angle?

Acute Angle?

Right Angle?

Obtuse Angle?

Straight Angle?

Reflex Angle?

..... So what's the difference?







Go Over The Knowledge



2) How to measure an angle?

Acute / Right / Obtuse Angle?

Straight / Reflex Angle? Still... ...

... ... So what's the difference?

- a) Tool?
 PROTRACTOR
- b) HOW TO USE?



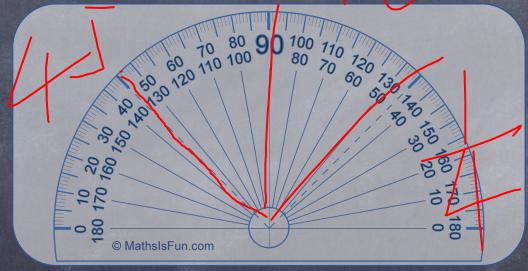




Go Over The Knowledge



2) How to use a protractor?



Reference: https://www.mathsisfun.co

m/geometry/protractor-using.html



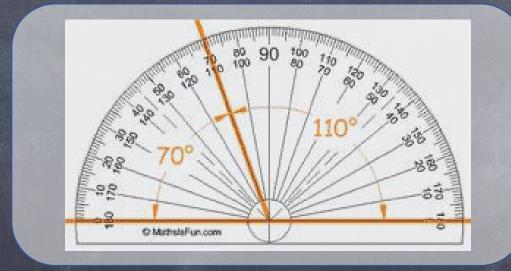




Go Over The Knowledge



2) How to use a protractor?



Reference: https://www.mathsisfun.co

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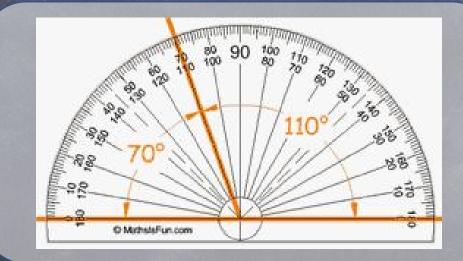




Go Over The Knowledge



2) How to use a protractor?



a particular angle?

Reference: https://www.mathsisfun.co

m/geometry/protractor-using.html







Go Over The Knowledge



3) 360 degrees or 360°?

Acute Angle?

Right Angle? * 90°

Obtuse Angle?

Straight Angle? * 180°

Reflex Angle?

..... So what's the relationship?

Name and definition?



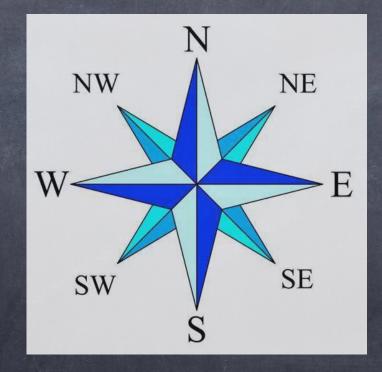




02.Review: ANGLES Go Over The Knowledge



8-point compass?













1) What is a line?

(only 2 - dimention lines discussed)

In common language it is a long thin mark made by a

pen, pencil, etc.

In Geometry a line:

- is straight (no bends),
- has no thickness,
- and extends in both directions without end (infinitely).



02.Review: LINES

Go Over The Knowledge





(only 2 - dimension lines discussed)



- a) intersecting (perpendicular lines included)/ crosswire
 - * VERTICAL: Specialized intersecting
- b) parellel
 - * opposite side of intersecting lines



02.Review: LINES

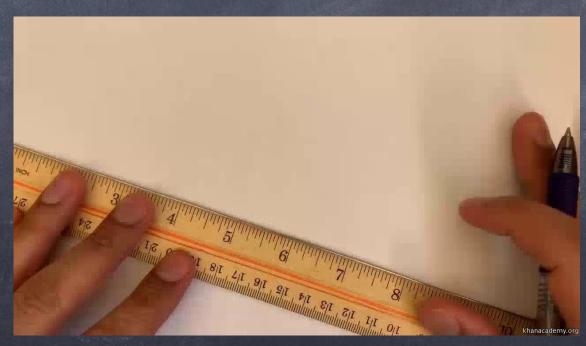
Go Over The Knowledge

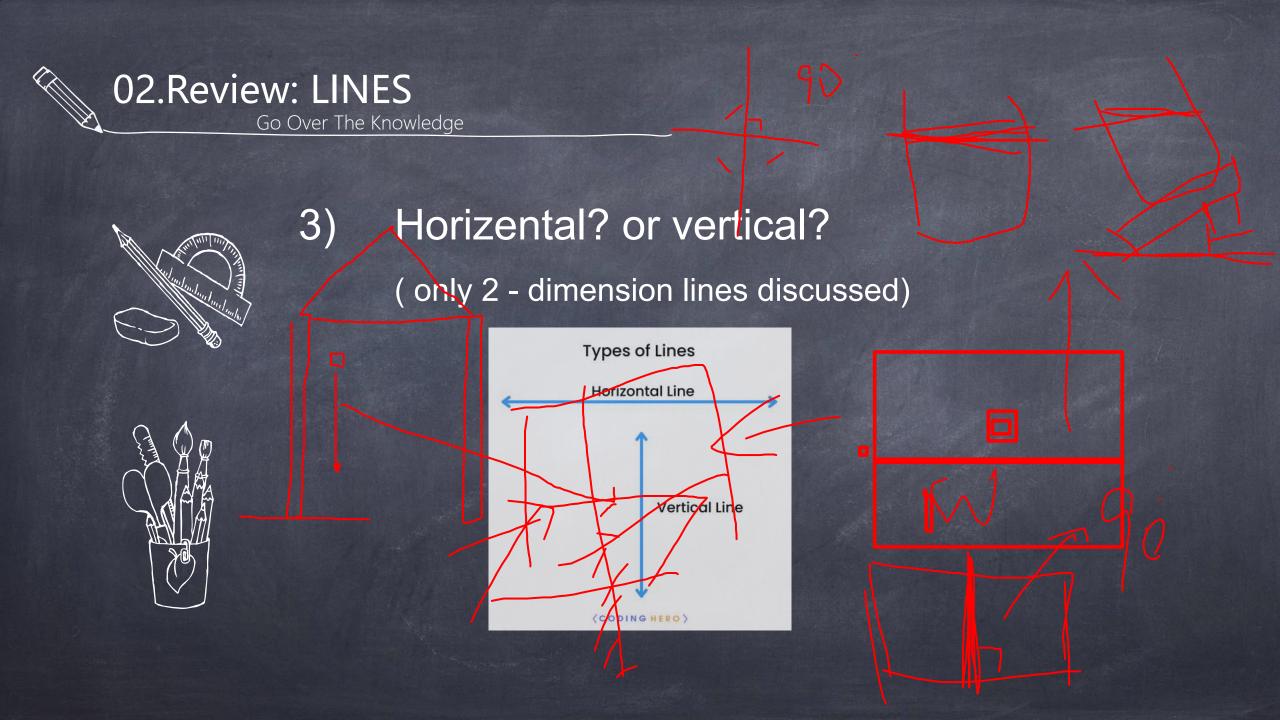


2) How to graph?

(only 2 - dimension lines discussed)











03
Practice
Problem Solving

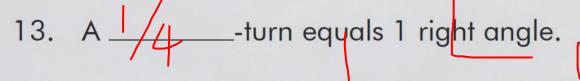












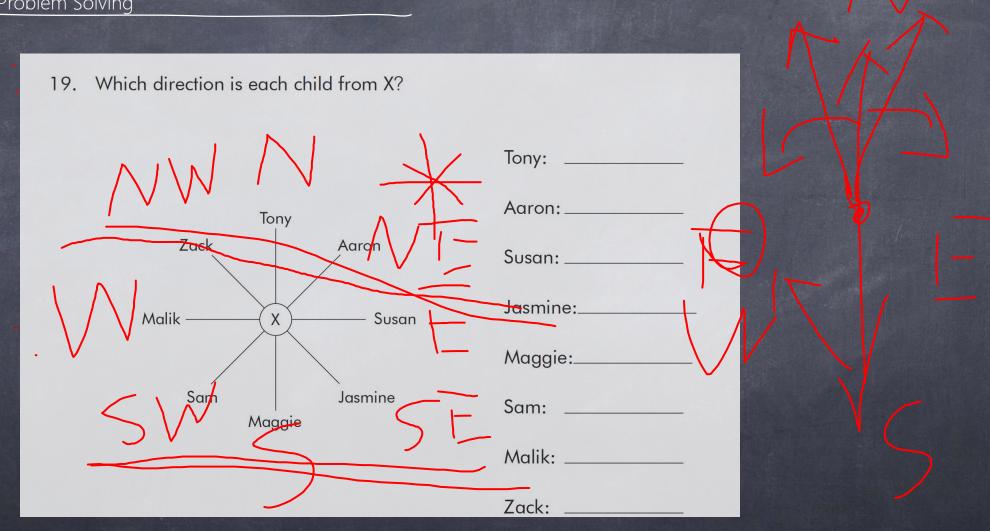
14. A half-turn equals _____o.

16. A complete turn equals _____ right angles.

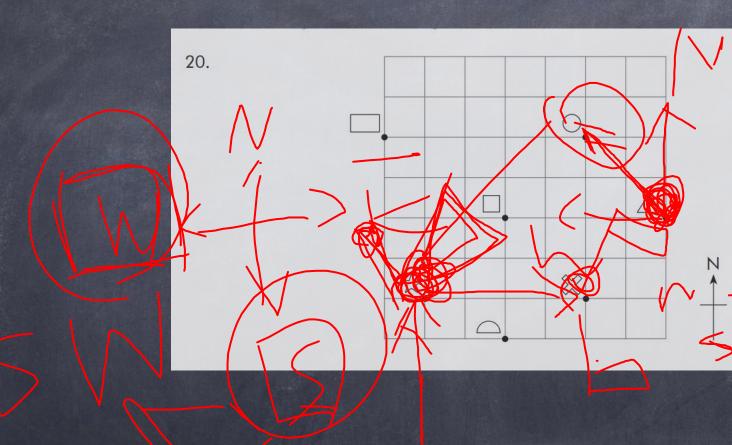
17. _____ of a complete turn is 180%___/

18. _____ of a complete turn is 90°.







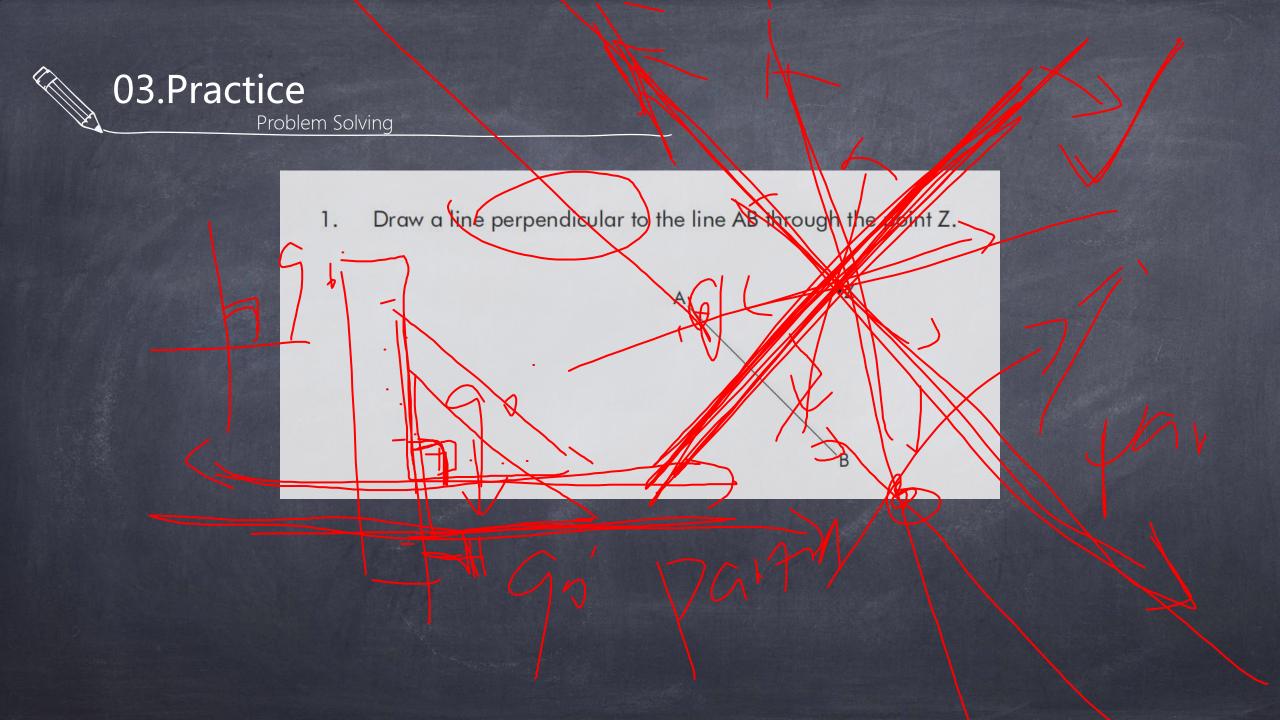


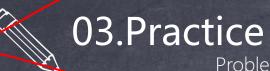
- (a) The circle is of the triangle.
- (b) The semicircle is _ of the star.
- (c) The square is _ of the triangle
- (d) The cross is of the star,
- (e) The square is _ of the semicircle.
- (f) The circle is _ of the rectangle.
- (g) The triangle is _ of the cross.
- (h) The star is _ of the circle.

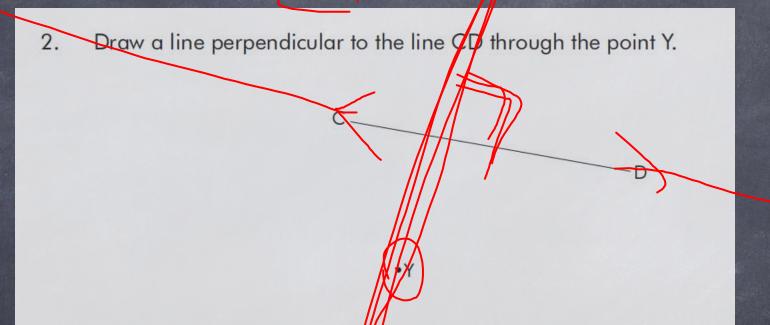


21. north east south

- (a) George is facing north. If he turns clockwise ____o, he will face southwest.
- (b) George is facing west. If he turns counterclockwise ____o, he will face east.
- (c) George is facing northwest. If he turns counterclockwise ____o, he will face northeast.
- (d) George is facing south. If he turns counterclockwise ____o, he will face southeast.
- (e) George is facing east. If he makes a _____-turn clockwise, he will face south.
- (f) George is facing north. If he makes a ____-turn counterclockwise, he will face east.





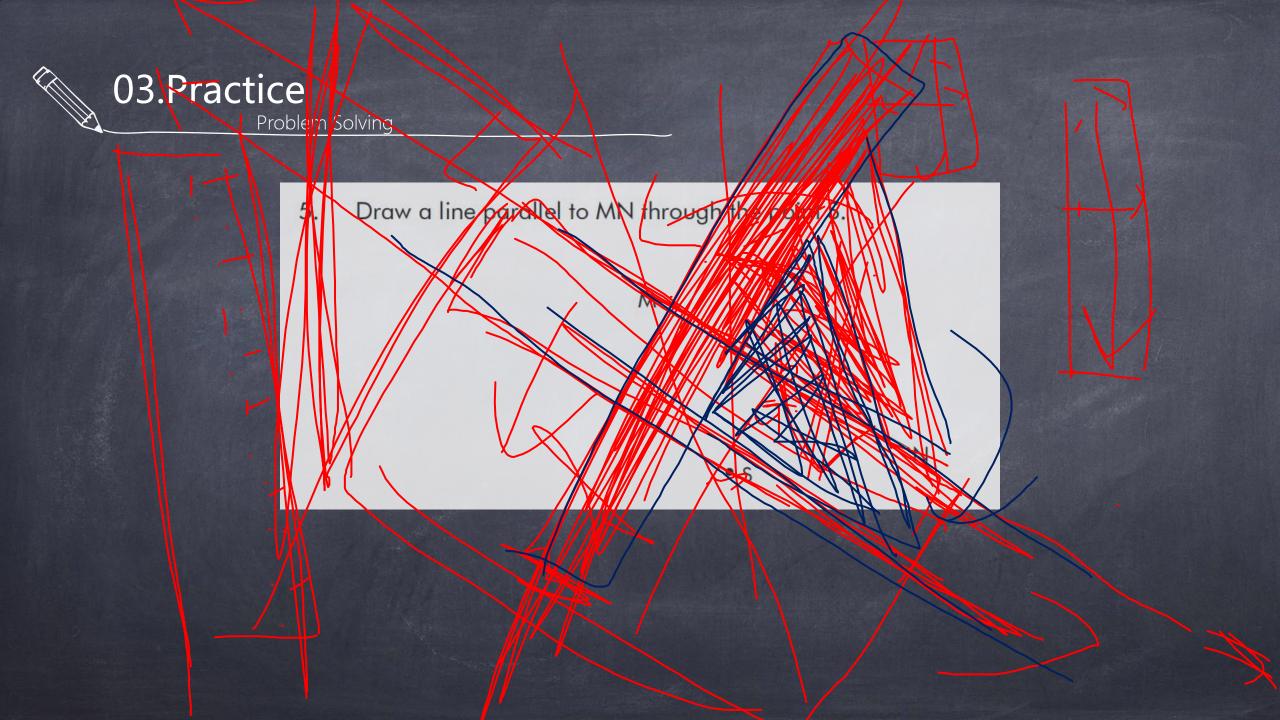


03.Practice Problem Solving Draw a line perpendicular to the line EF through the point X. Draw a line perpendicular to the line EF through the point Y.

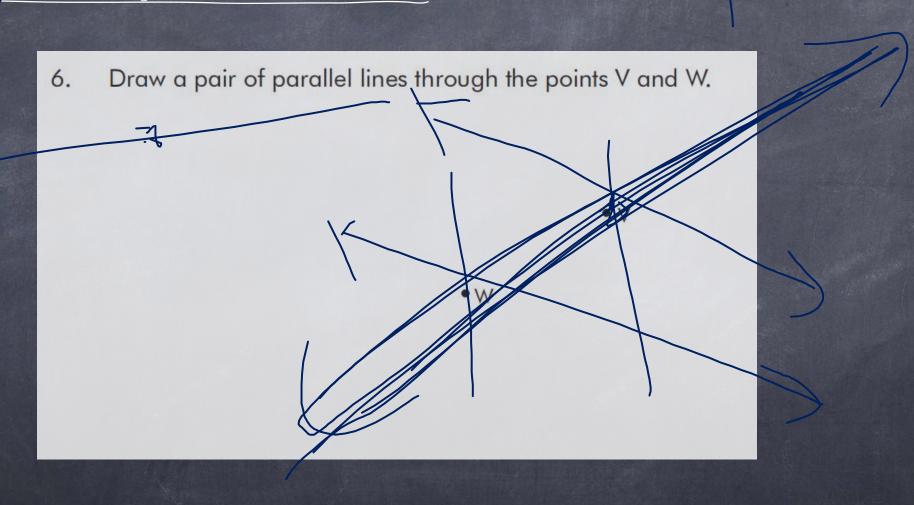


4. (a) Draw a line perpendicular to line GH through the point A.

(b) Draw a line perpendicular to line GH through the point B.

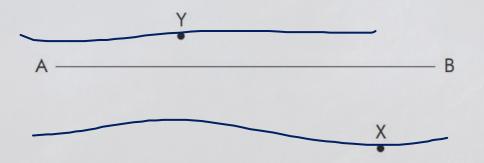


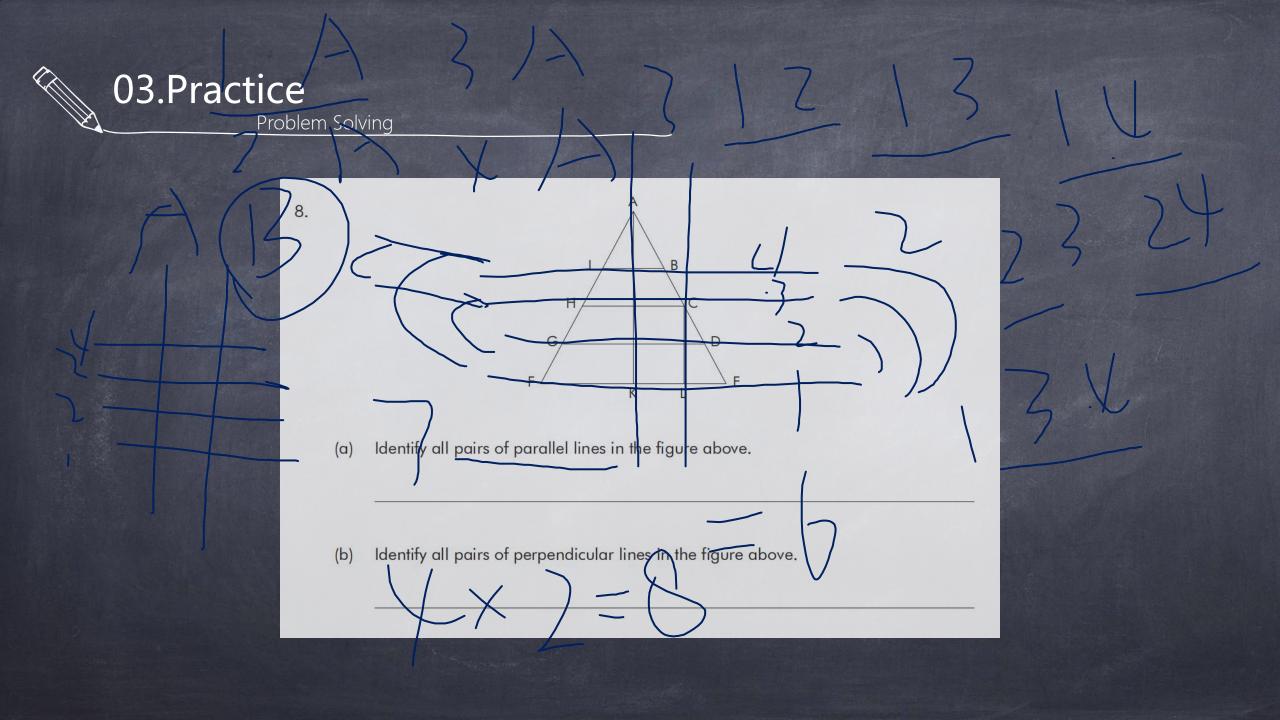






- 7. (a) Draw a line parallel to AB through the point X.
 - (b) Draw a line parallel to AB through the point Y.





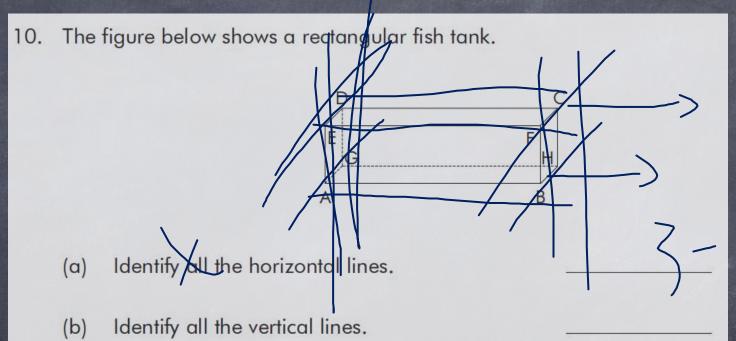


- 9. The figure below shows a section of a brick wall.
 - (a) Draw a vertical line through A to meet XY and label it as AB.
 - (b) Draw a horizontal line through A and label it as AC.





Problem Solving



7-)8



- 11. The figure on the right shows a box.
 - (a) Line AB is a _____ line.
 - (b) Line BC is a _____ line.
 - (c) Line DC is a _____ line.
 - (d) Line AD is a _____ line.



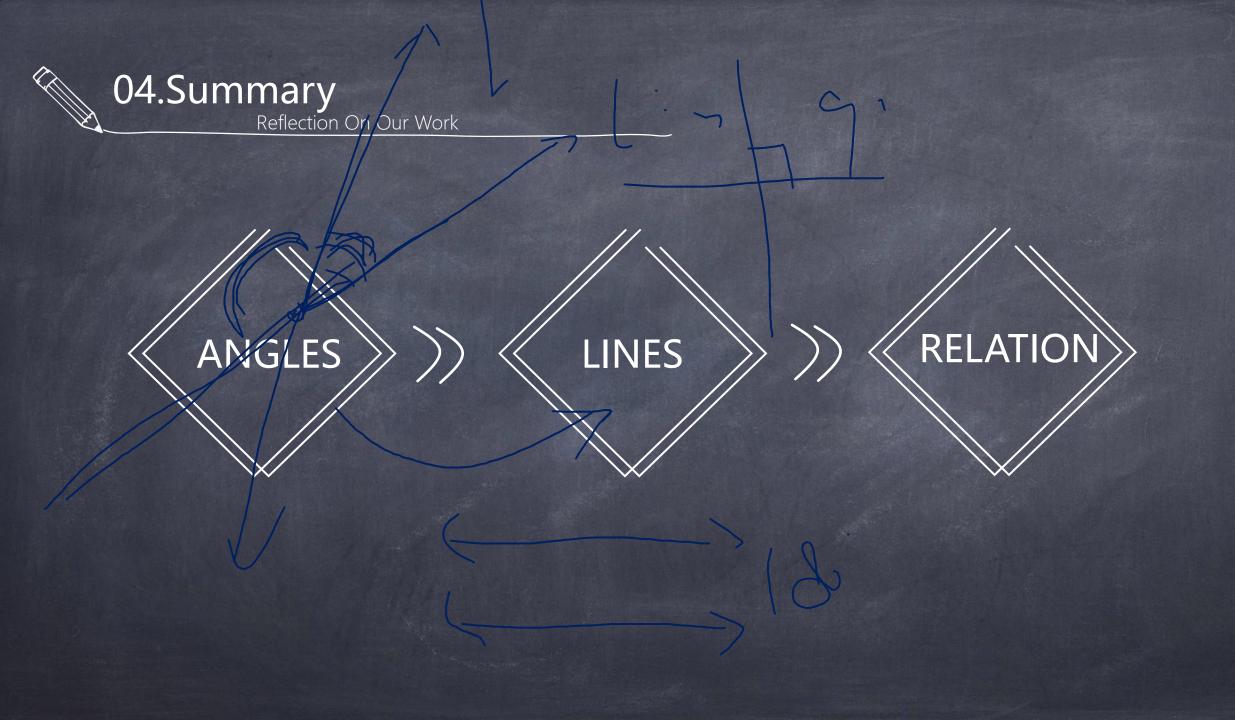


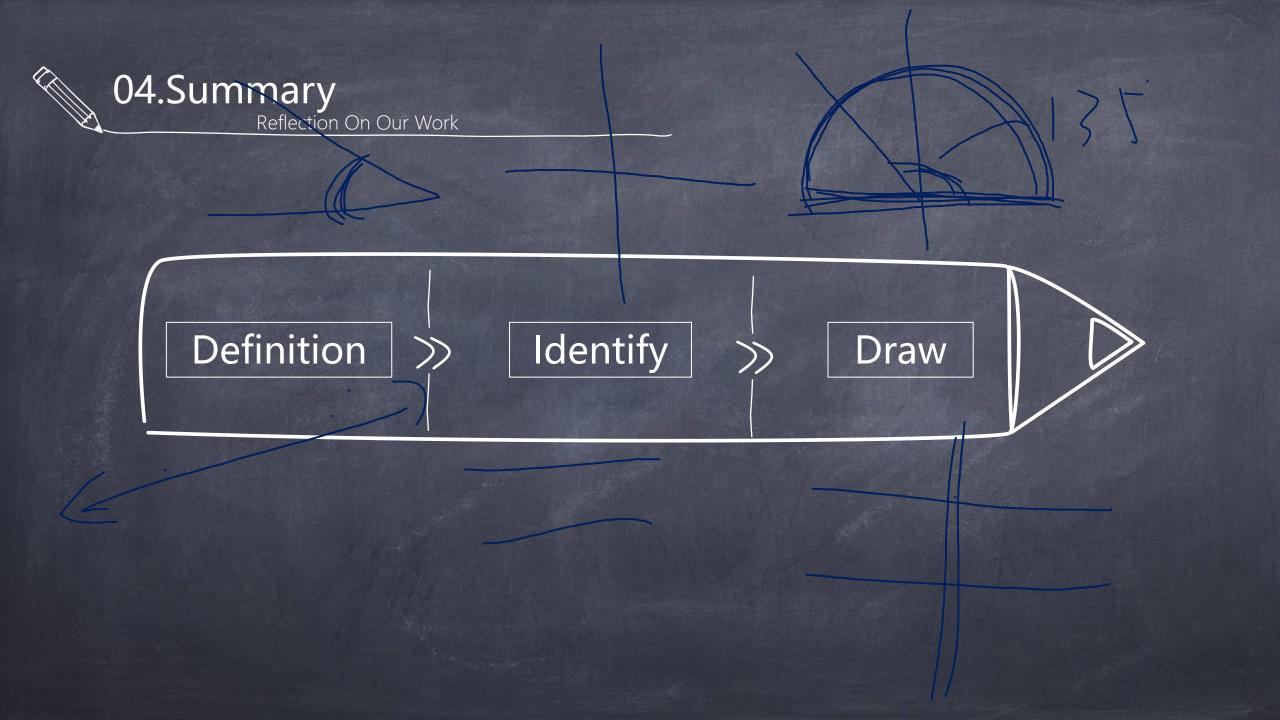


U4
Summary
Reflection On Our Work













ANY QUESTION?

Remind to do some exercise after class!











Thanks!

Remind to do some exercise after class!

Instructor: Franky Chan





