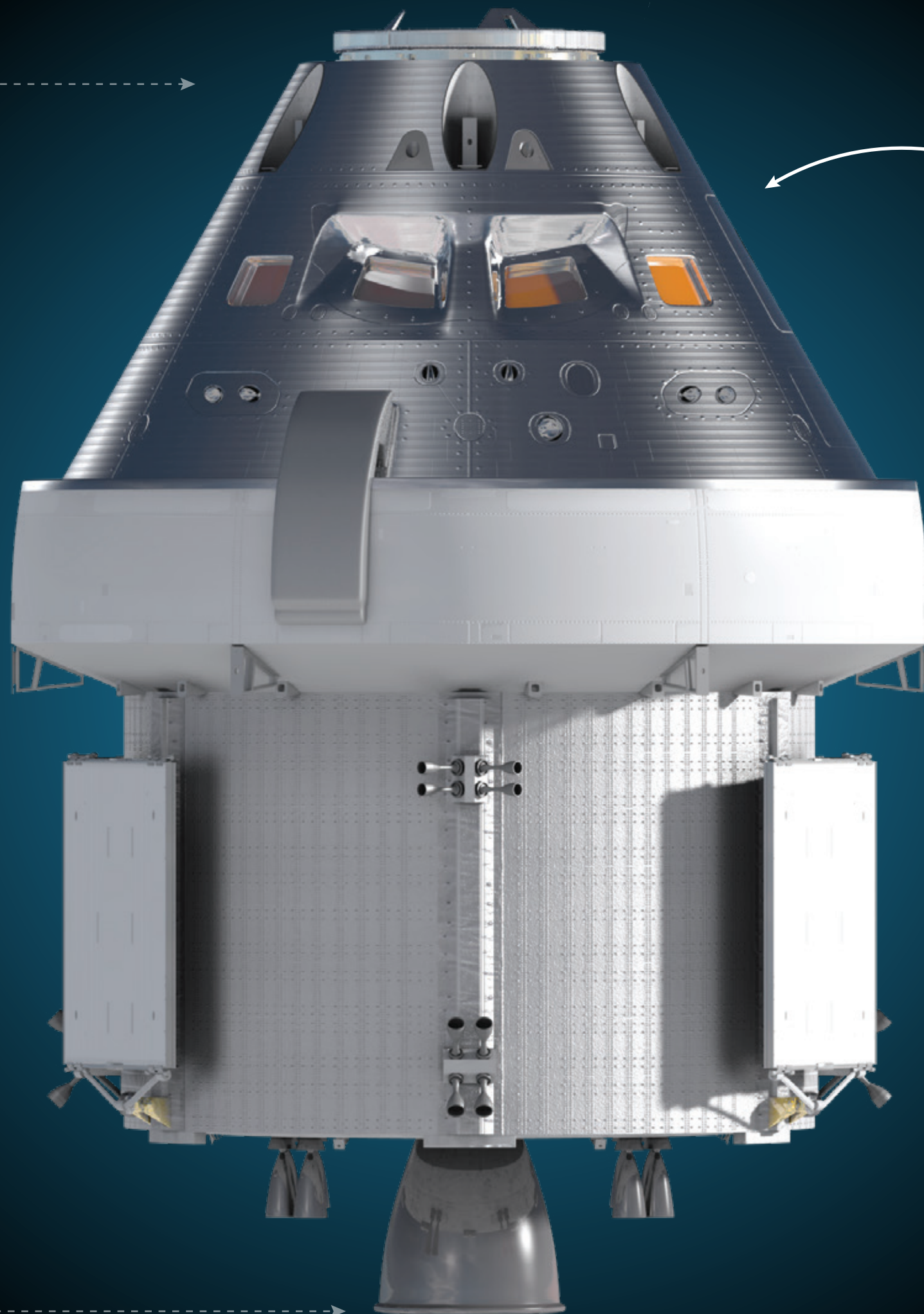


# HOW TO DRAW

# ARTS

NASA'S ORION SPACECRAFT



**CREW MODULE**  
HABITABLE SPACE AND SUPPLIES FOR FOUR CREW MEMBERS. PROTECTS THE CREW FROM THE HARSH ENVIRONMENT OF SPACE AND THE HEAT OF REENTRY.

**EUROPEAN SERVICE MODULE**  
ORION'S EUROPEAN SERVICE MODULE PROTECTS THE SPACECRAFT FROM EXTREME HOT & COLD TEMPERATURES, GENERATES POWER, SUPPLIES AIR & WATER TO CREW, PROPELS ORION HUNDREDS OF THOUSANDS OF MILES BEYOND EARTH.

National Aeronautics and  
Space Administration



**WE ARE GOING!**



WITH THE ARTEMIS PROGRAM, NASA WILL LAND THE FIRST WOMAN AND NEXT MAN ON THE MOON BY 2024, USING INNOVATIVE TECHNOLOGIES TO EXPLORE MORE OF THE LUNAR SURFACE THAN EVER BEFORE.

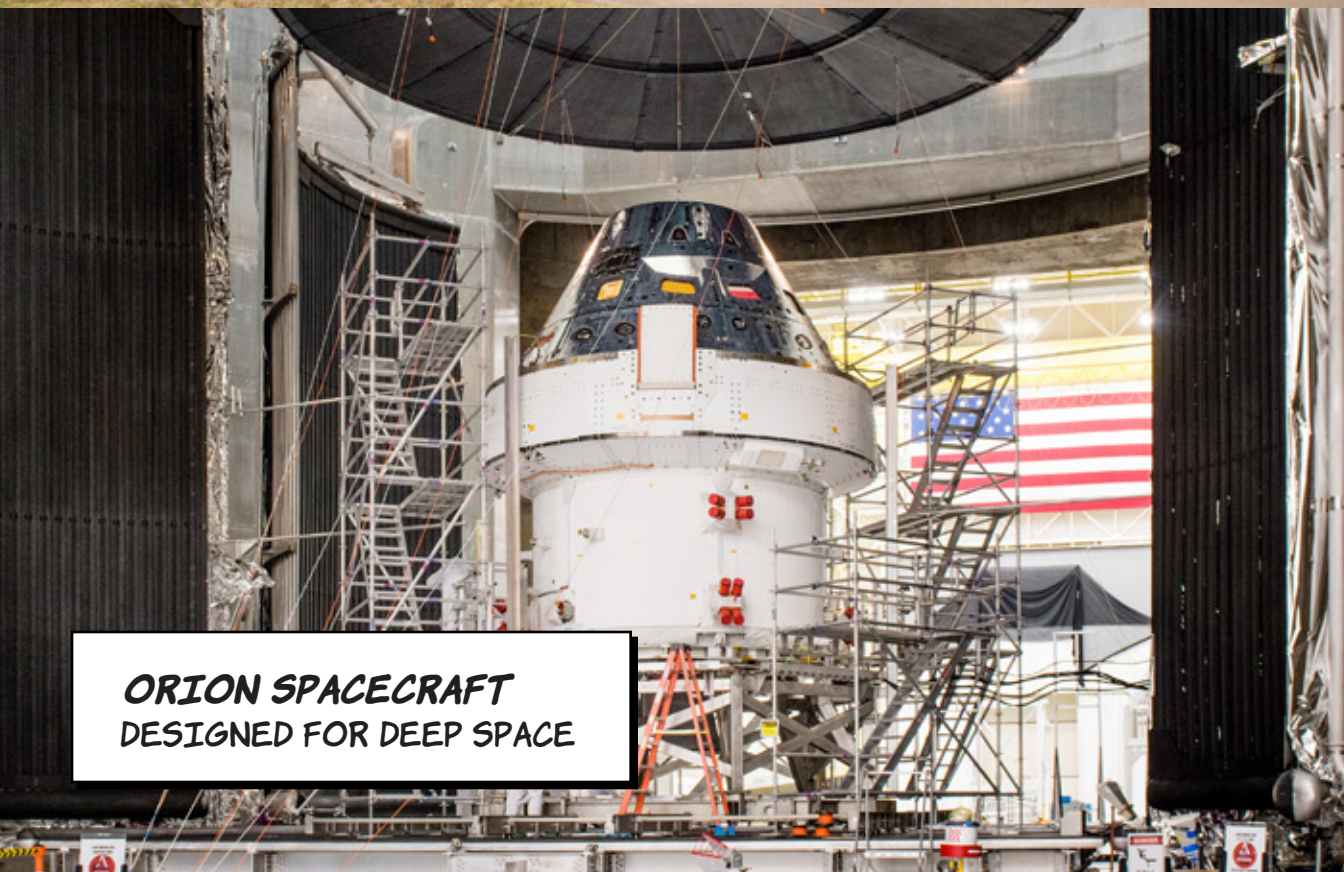
LEARN MORE: [NASA.GOV/ARTEMIS](https://www.nasa.gov/artemis)

**THE SPACE LAUNCH SYSTEM  
WORLD'S MOST POWERFUL ROCKET**

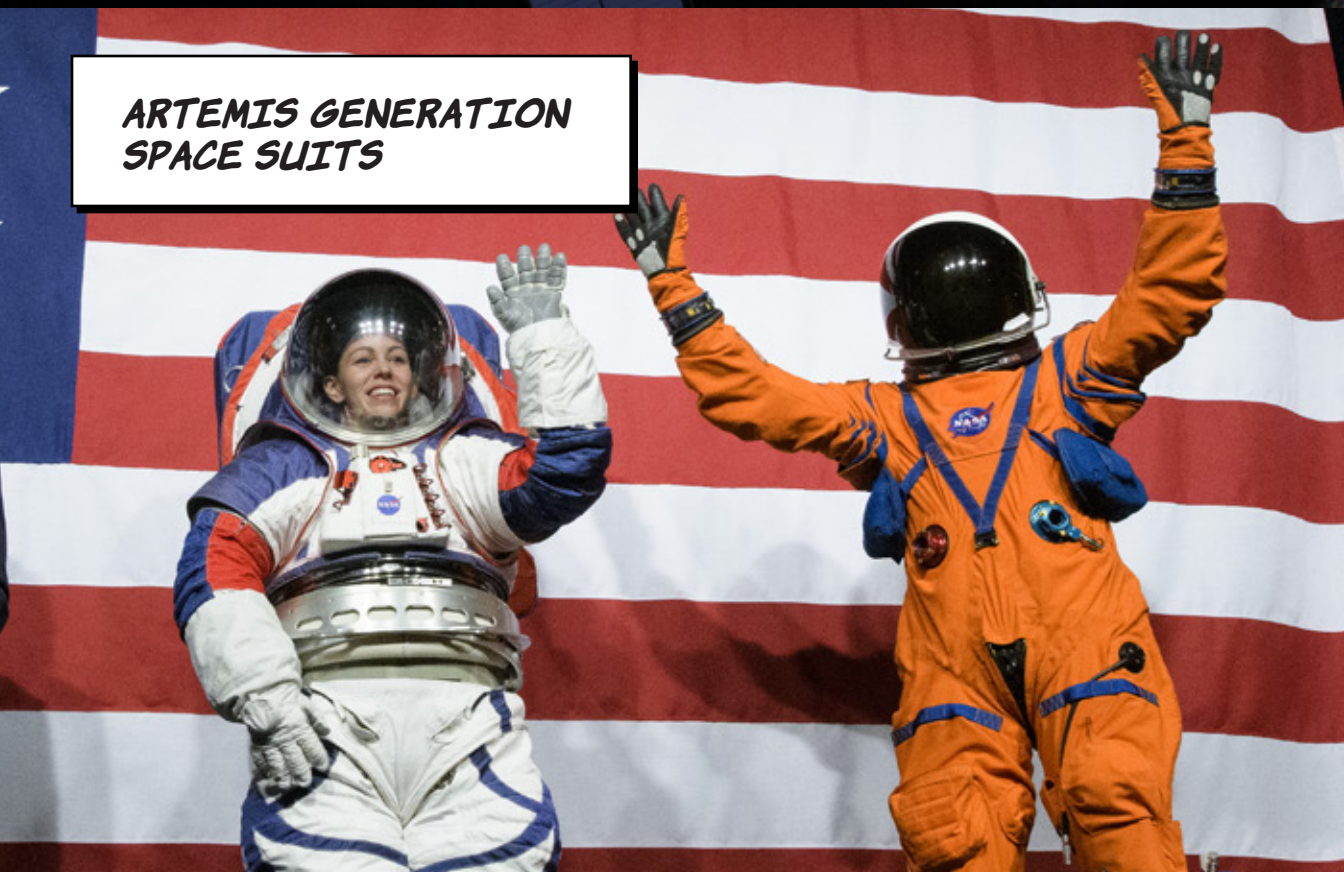


**THE GATEWAY  
OUTPOST ORBITING THE MOON**

**ORION SPACECRAFT  
DESIGNED FOR DEEP SPACE**



**ARTEMIS GENERATION  
SPACE SUITS**



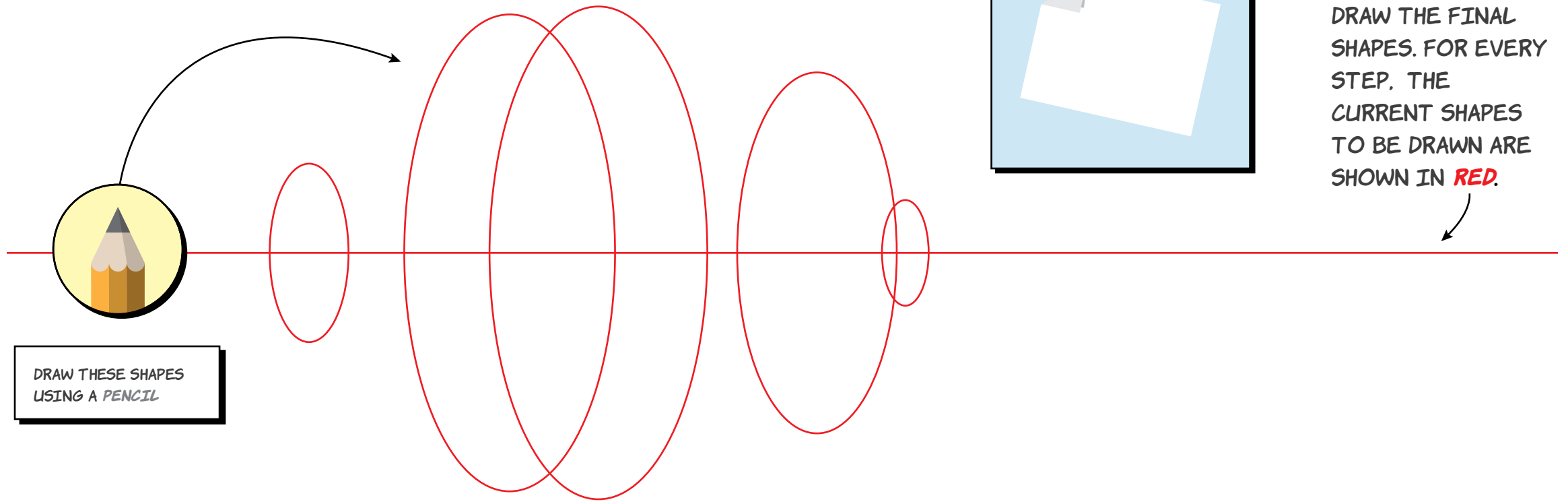
# 1. LET'S DRAW THE ORION SPACECRAFT

ORION CAN BE DRAWN USING SIMPLE SHAPES. THE CREW MODULE IS A CONE AND THE SERVICE MODULE IS A SET OF TUBES. USING THE PENCIL, DRAW A HORIZONTAL LINE AND A SERIES OF OVALS THAT YOU WILL USE TO CREATE THE BASIC SHAPE OF THE SPACECRAFT.

**SUPPLY LIST**

- PENCIL WITH ERASER
- BLACK PEN OR MARKER
- SHEET OF PAPER

THIS ACTIVITY REQUIRES A PENCIL AND A BLACK PEN OR A MARKER. YOU WILL USE THE PENCIL TO DRAW THE GUIDELINES AND THE MARKER TO DRAW THE FINAL SHAPES. FOR EVERY STEP, THE CURRENT SHAPES TO BE DRAWN ARE SHOWN IN RED.



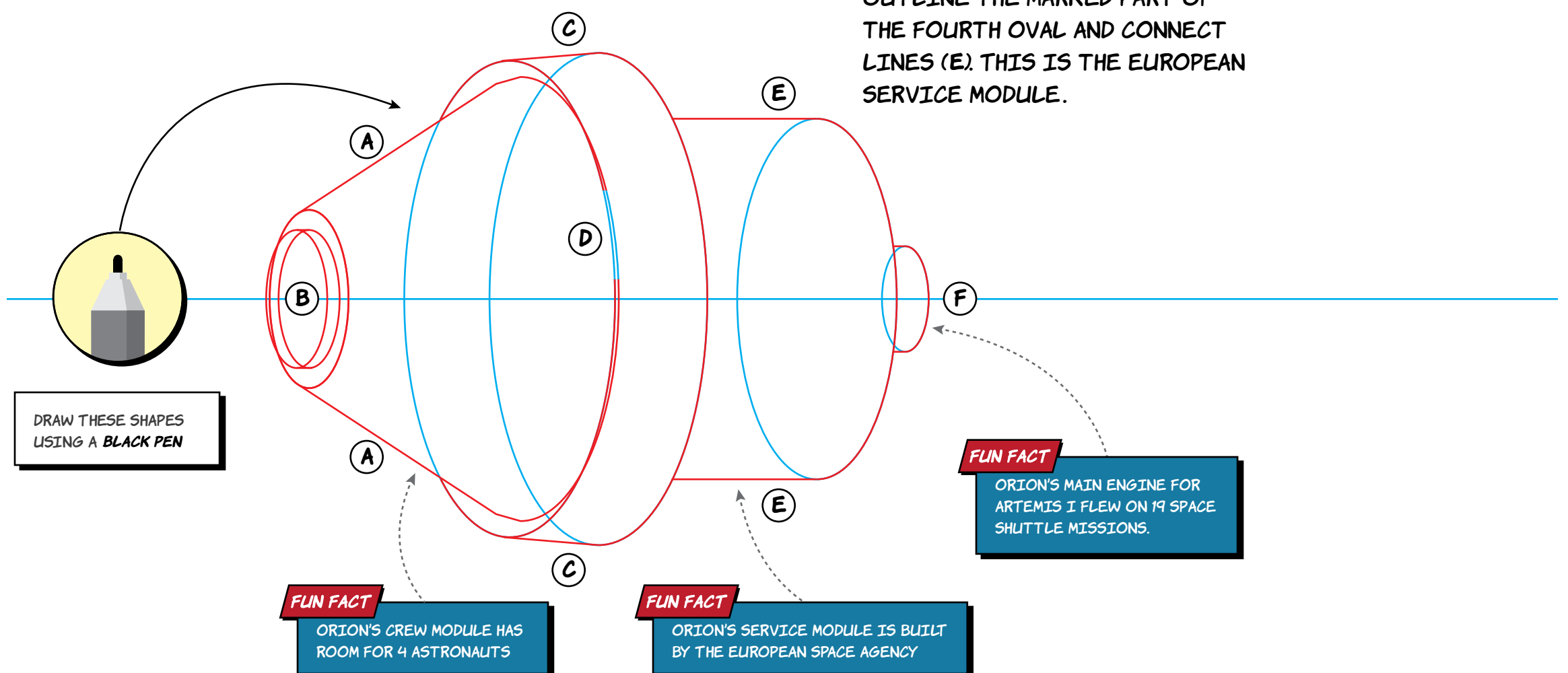
# 2. DRAW CREW AND SERVICE MODULES

DRAW THE OUTLINE OF THE FIRST OVAL AND DRAW LINES (A) TO THE INSIDE OF THE SECOND OVAL. THIS CREATES THE SHAPE FOR THE CREW MODULE. DRAW TWO MORE OVALS (B) IN THE FRONT. THIS IS THE FORWARD HATCH.

OUTLINE THE MARKED PARTS OF THE SECOND AND THIRD OVALS AND CONNECT THEM WITH LINES (C). THIS IS THE CREW MODULE ADAPTER. LEAVE A SPACE (D) FOR THE UMBILICAL COVER.

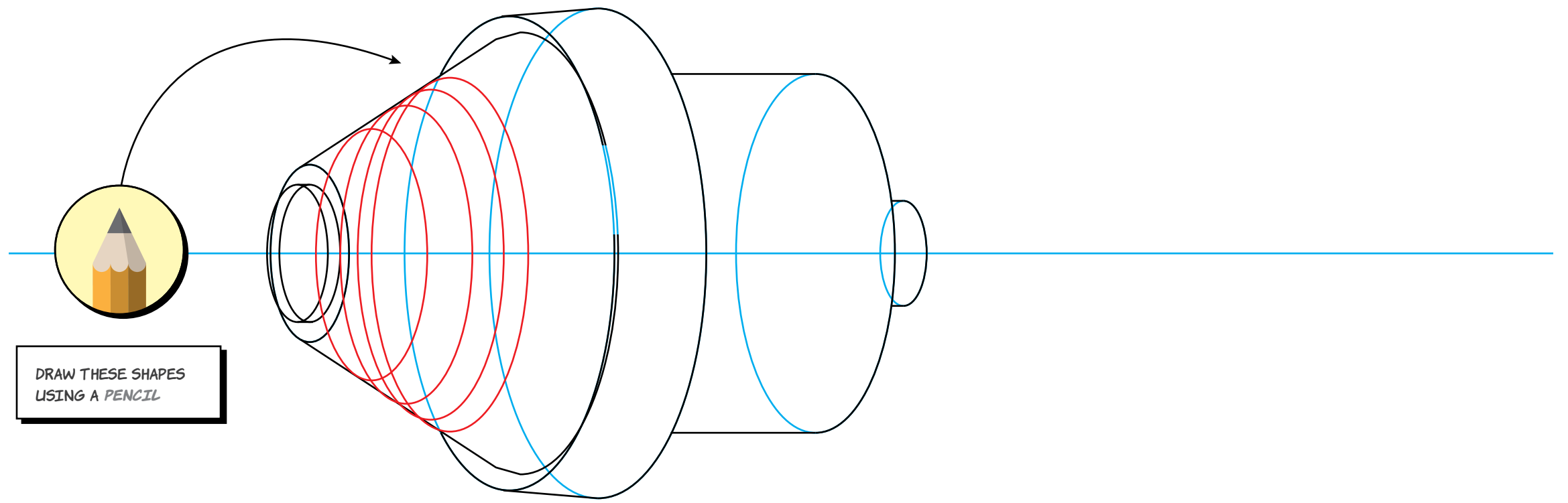
OUTLINE THE MARKED PART OF THE FIFTH OVAL (F) AND CONNECT IT TO THE FOURTH OVAL. THIS IS ORION'S MAIN ENGINE.

OUTLINE THE MARKED PART OF THE FOURTH OVAL AND CONNECT LINES (E). THIS IS THE EUROPEAN SERVICE MODULE.



### 3. DRAW GUIDELINES FOR CREW MODULE DETAILS

DRAW FOUR MORE OVALS ON THE CREW MODULE. YOU'LL USE THESE AS GUIDES TO LINE UP THE WINDOWS AND THE BACKSHELL PANELS.



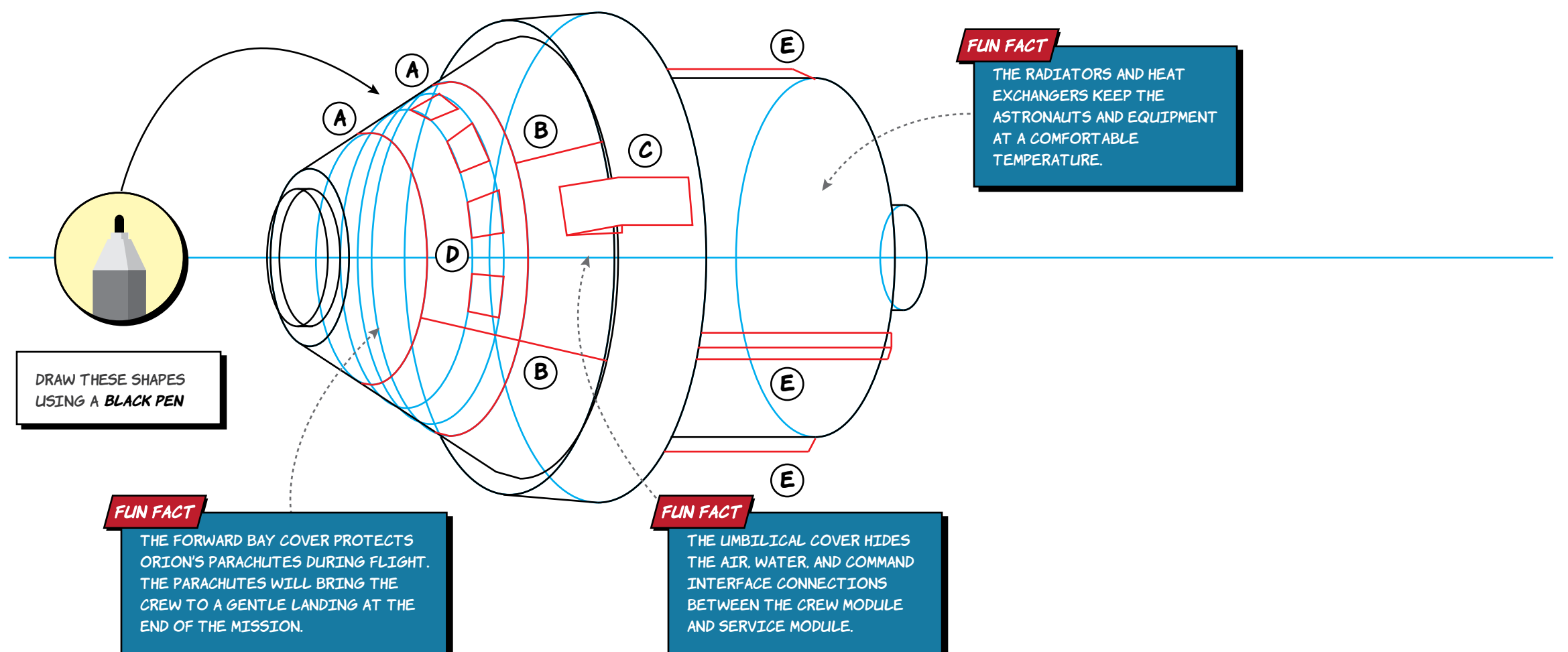
### 4. DRAW WINDOWS AND BACKSHELL PANELS

DRAW OVER THE MARKED PARTS OF THE FIRST AND FOURTH OVALS IN BLACK INK (A) AND ADD THE LINES SEPARATING THE OVALS INTO INDIVIDUAL BACKSHELL PANELS (B).

USING THE SECOND AND THIRD OVAL AS A GUIDE, DRAW FOUR WINDOWS (D).

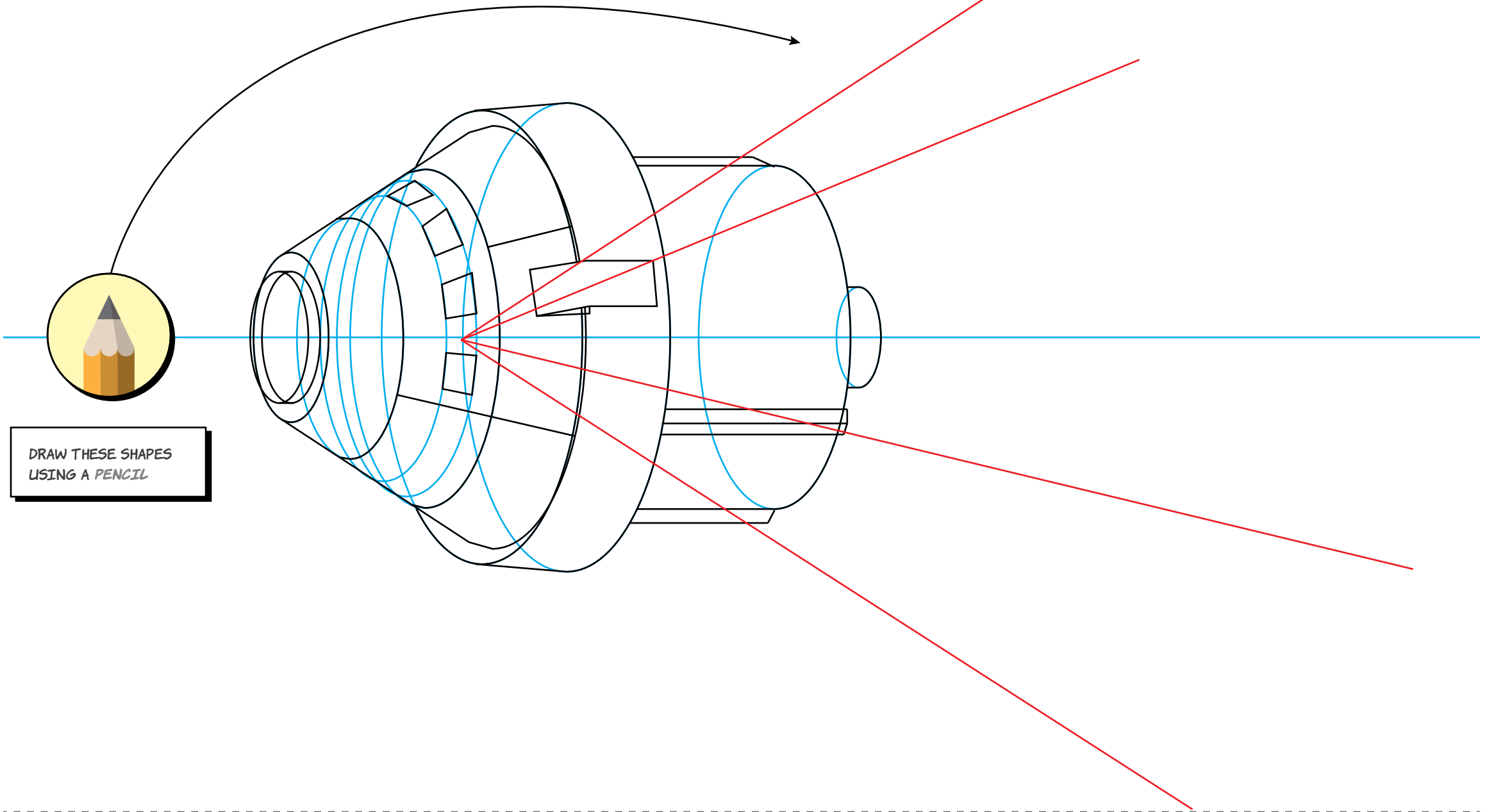
DRAW THE PARTITIONS SEPARATING THE SERVICE MODULE RADIATOR PANELS (E).

DRAW THE UMBILICAL COVER (C).



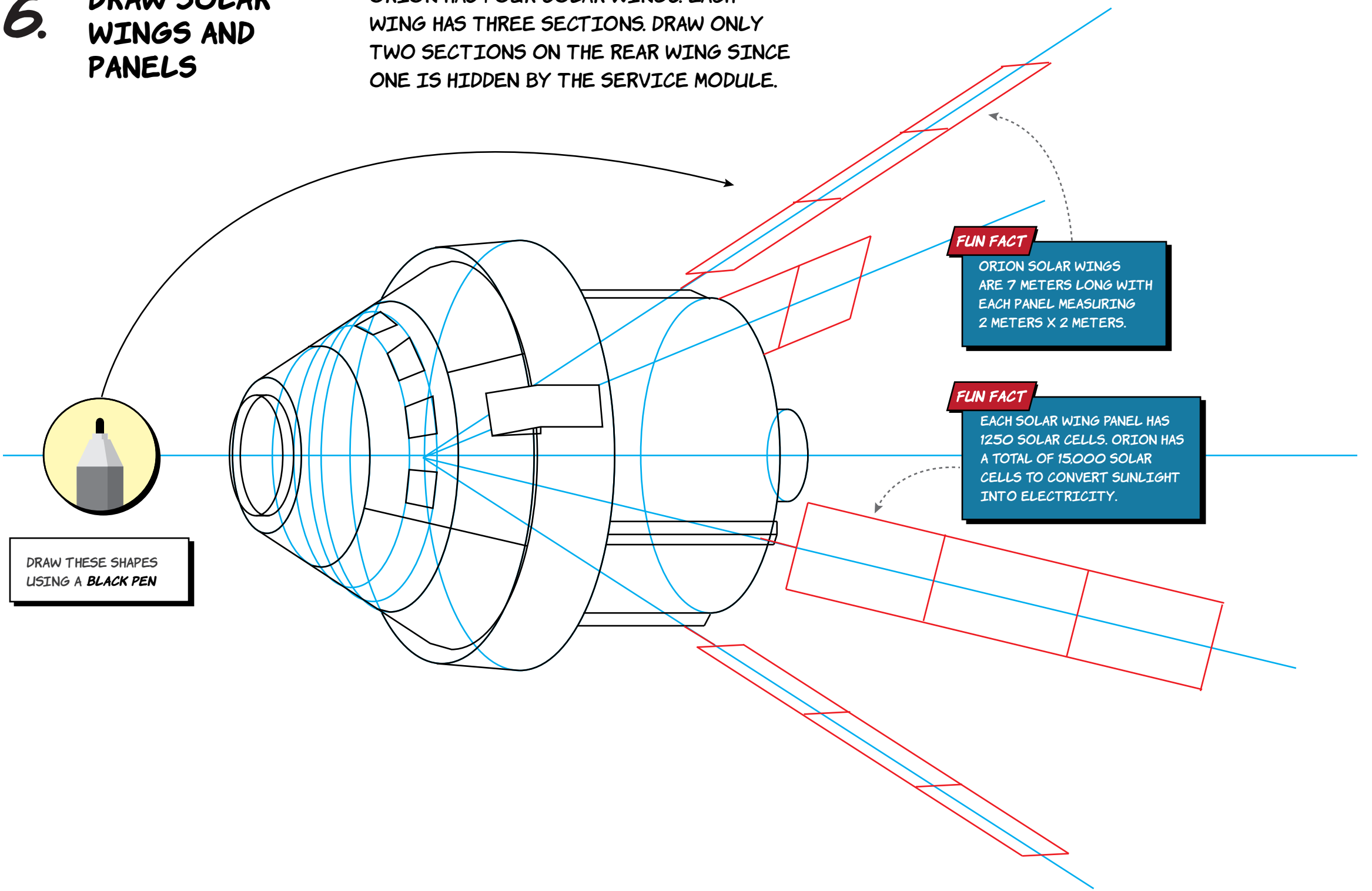
# 5. DRAW GUIDELINES FOR SOLAR WINGS

FIND A SPOT TOWARD THE CENTER OF THE CREW MODULE. DRAW FOUR LINES RADIATING OUT FROM THAT POINT AND INTERSECTING THE SERVICE MODULE TOWARD THE BOTTOM.



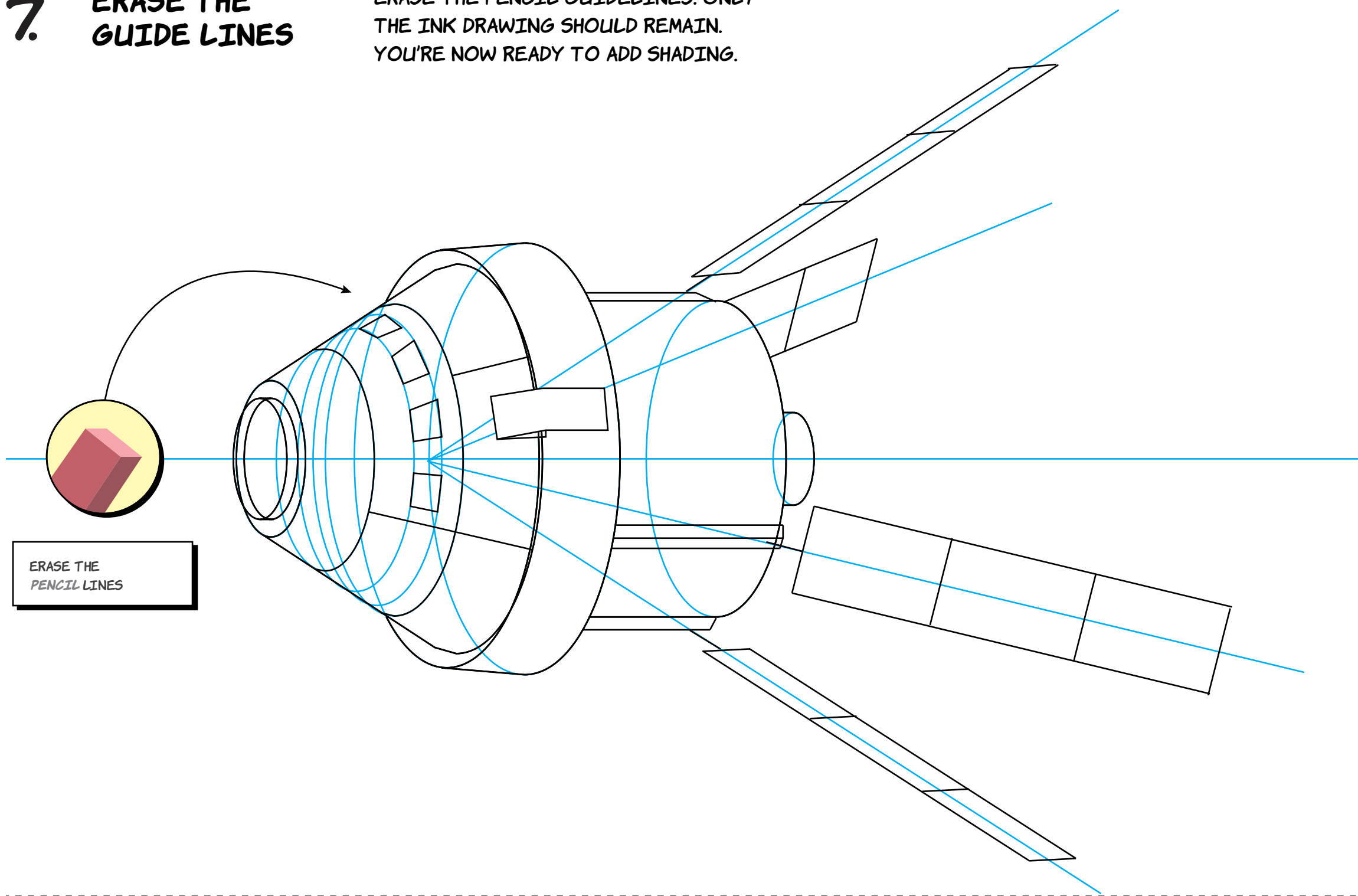
# 6. DRAW SOLAR WINGS AND PANELS

ORION HAS FOUR SOLAR WINGS. EACH WING HAS THREE SECTIONS. DRAW ONLY TWO SECTIONS ON THE REAR WING SINCE ONE IS HIDDEN BY THE SERVICE MODULE.



# 7. ERASE THE GUIDE LINES

ERASE THE PENCIL GUIDELINES. ONLY THE INK DRAWING SHOULD REMAIN. YOU'RE NOW READY TO ADD SHADING.



# 8. SHARE YOUR MASTERPIECE!

MAKE IT YOUR OWN! ADD EXCITING COLORS. DRAW STARS AND PLANETS.

DON'T FORGET TO SHARE YOUR MASTERPIECE ON SOCIAL MEDIA!

**#DRAWARTEMIS**

