

YOUR NAME:

REGISTRATION #

## (R) Poles Apart (I/I0) [15 points]

And you thought that learning the periodical table was hard. Now try doing it in Polish! How about in Polish Sign Language?

The next page lists all chemical elements in English. The seven pages thereafter include the names of 40 of them, written in Polish Sign Language.

Figure out how this language works and then use it to write the names of the following chemical elements: Selenium, Molybdenum, Helium, Xenon, Ytterbium using the key on the last page of the problem. In each box add the numeric code for the sign.

Note: knowledge of Chemistry is not needed to solve this problem.

**R1.** Selenium

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**R2.** Molybdenum

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**R3.** Helium

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**R4.** Xenon

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**R5.** Ytterbium

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## (R) Poles Apart (2/10)





Actinium	Fluorine	Nitrogen	Tellurium
Aluminum	Francium	Nobelium	Terbium
Americium	Gadolinium	Osmium	Thallium
Antimony	Gallium	Oxygen	Thorium
Argon	Germanium	Palladium	Thulium
Arsenic	Gold	Phosphorus	Tin
Astatine	Hafnium	Platinum	Titanium
Barium	Hassium	Plutonium	Tungsten
Berkelium	Helium	Polonium	Uranium
Beryllium	Holmium	Potassium	Vanadium
Bismuth	Hydrogen	Praseodymium	Xenon
Bohrium	Indium	Promethium	Ytterbium
Boron	Iodine	Protactinium	Yttrium
Bromine	Iridium	Radium	Zinc
Cadmium	Iron	Radon	Zirconium
Calcium	Krypton	Rhenium	
Californium	Lanthanum	Rhodium	
Carbon	Lawrencium	Roentgenium	
Cerium	Lead	Rubidium	
Cesium	Lithium	Ruthenium	
Chlorine	Lutetium	Rutherfordium	
Chromium	Magnesium	Samarium	
Cobalt	Manganese	Scandium	
Copper	Meitnerium	Seaborgium	
Curium	Mendelevium	Selenium	
Darmstadtium	Mercury	Silicon	
Dubnium	Molybdenum	Silver	
Dysprosium	Neodymium	Sodium	
Einsteinium	Neon	Strontium	
Erbium	Neptunium	Sulfur	
Europium	Nickel	Tantalum	
Fermium	Niobium	Technetium	



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## (R) Poles Apart (3/10)

1.        
XVII VII V V XIII II
2.        
XVII VII X XXI VII XVII
3.       
I IX XVII XII XXI
4.       
XIV VII II XII V
5.      
X II VI III
6.            
II XIII XVII XX VII II XIX VI II XVIII

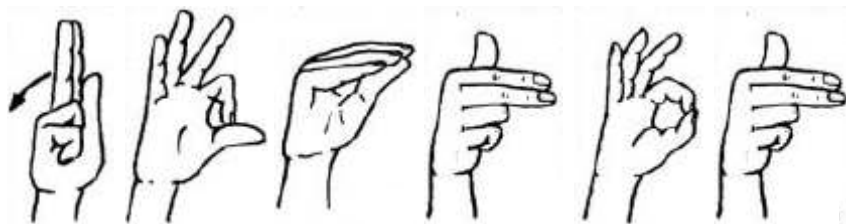
**n** → **a** → **c** → **l** → **o**

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## (R) Poles Apart (4/10)

7.



IX

XV

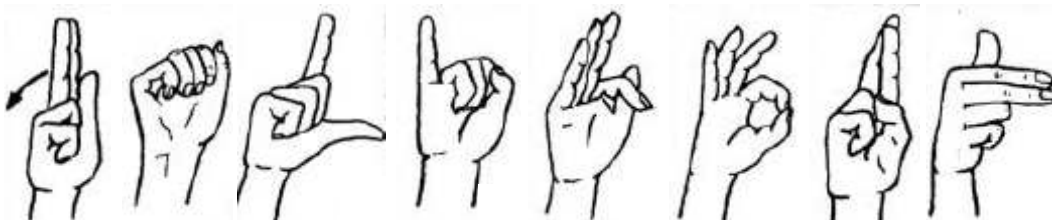
VII

XXI

VI

XXI

8.



IX

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XVI

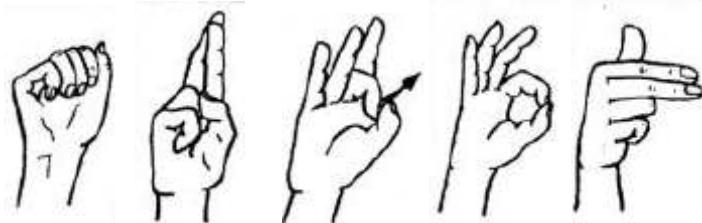
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XXI

9.



I

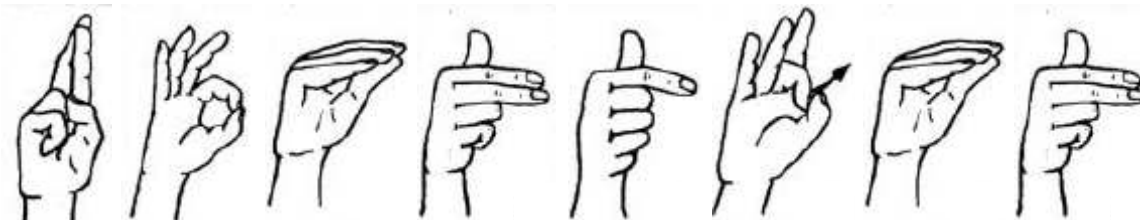
II

XI

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XXI

10.



II

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XXI

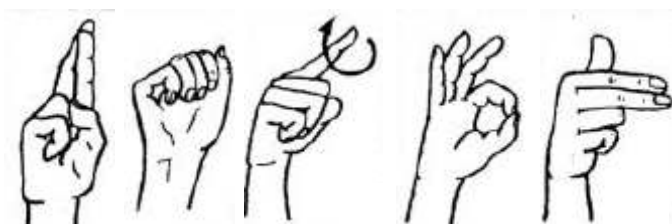
XVII

XI

VII

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II

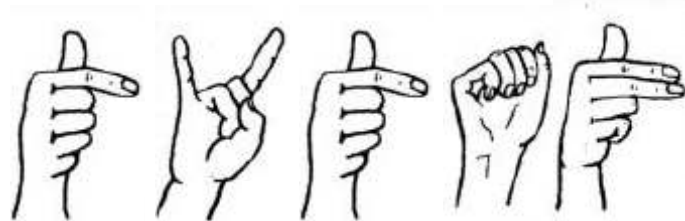
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XVIII

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XXI

12.



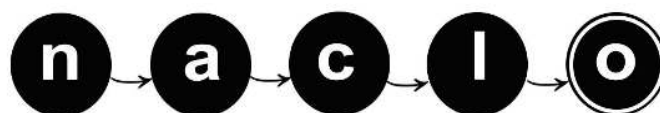
XVII

XII

XVII

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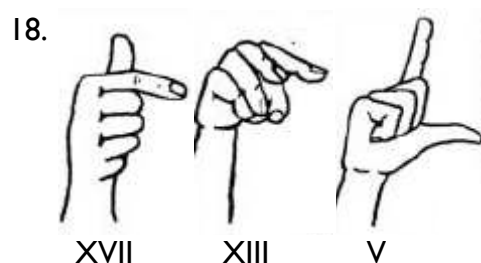
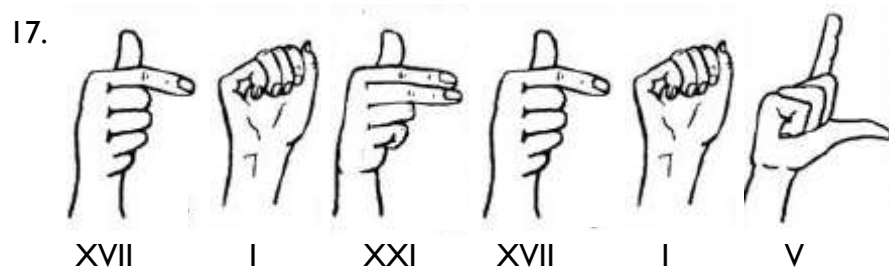
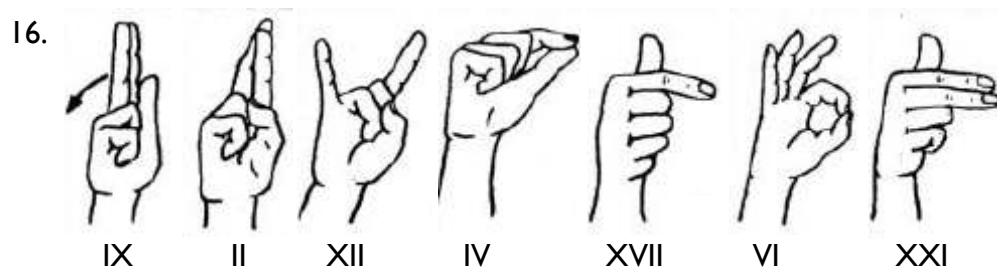
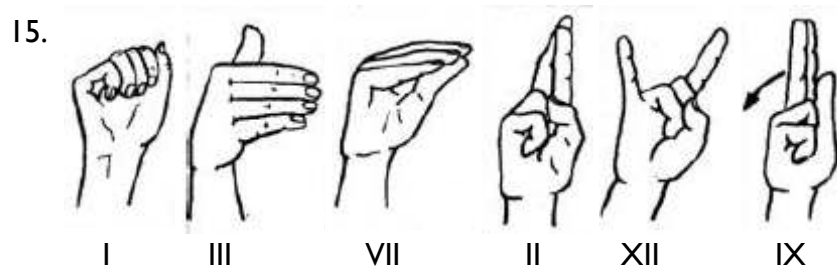
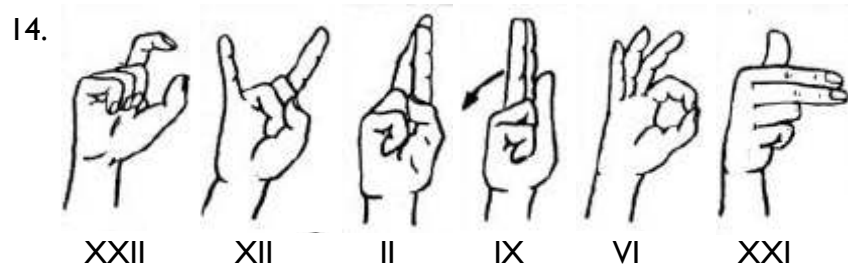
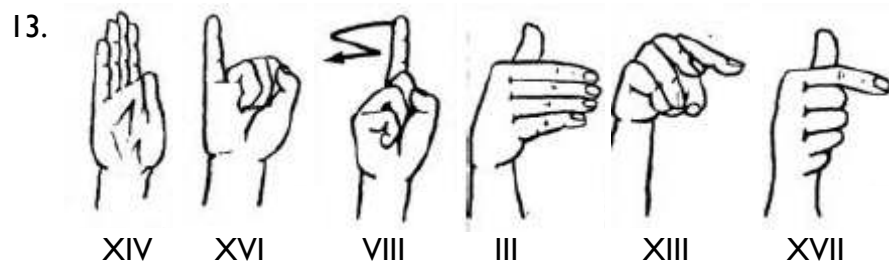
XXI



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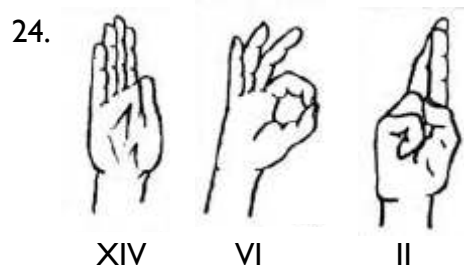
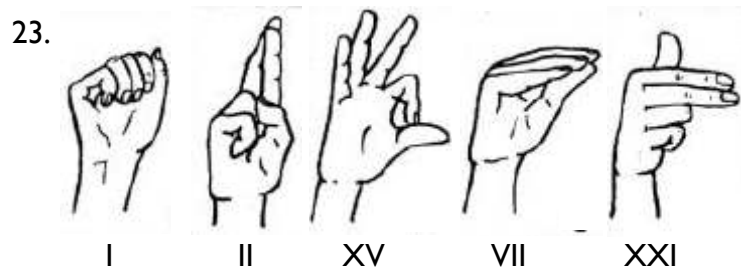
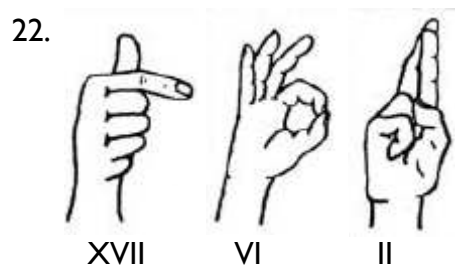
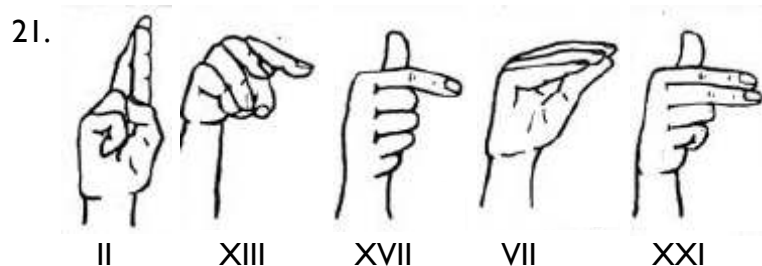
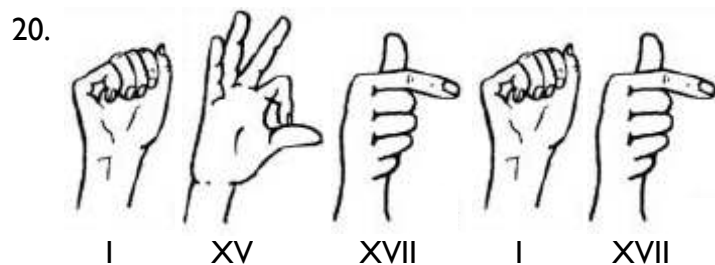
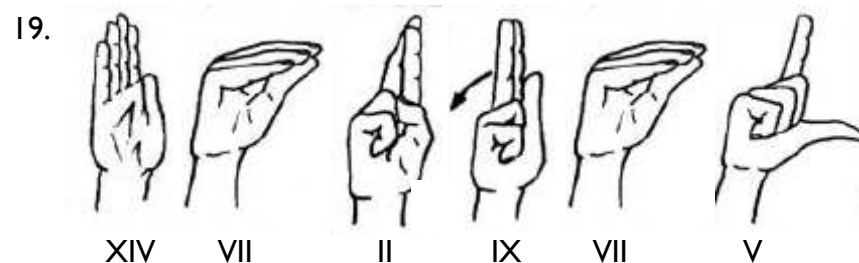
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## (R) Poles Apart (6/10)



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## (R) Poles Apart (7/10)

25.



XXII

VII

VIII

26.



IX

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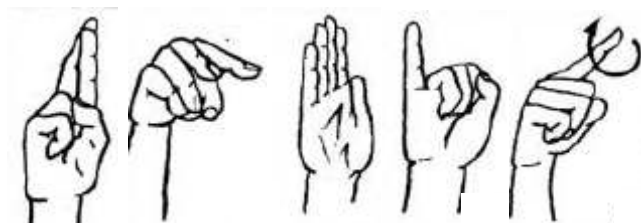
XIV

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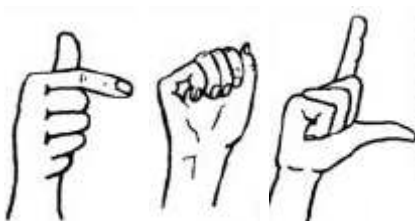
XIII

XIV

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28.

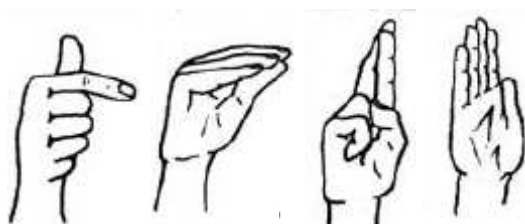


XVII

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29.



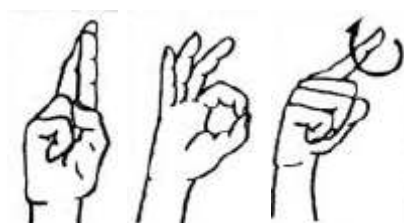
XVII

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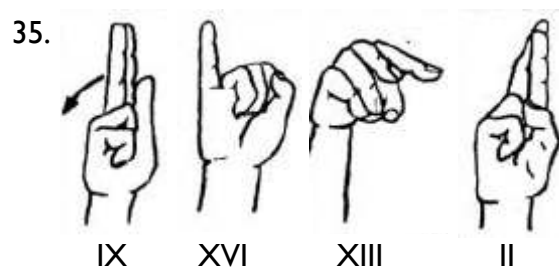
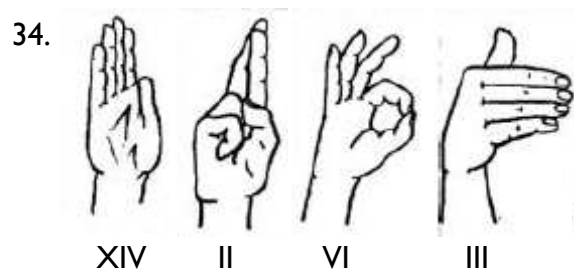
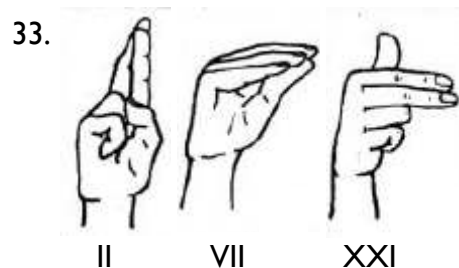
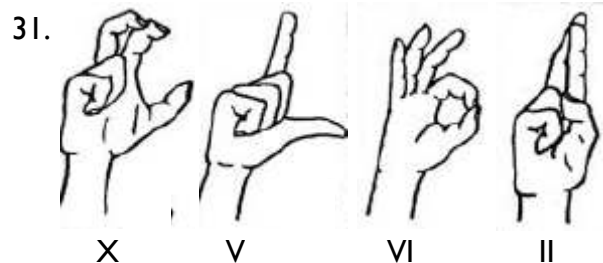
XVIII



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## (R) Poles Apart (8/10)



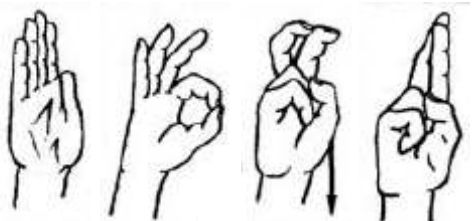
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## (R) Poles Apart (9/10)

37.



XIV

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38.



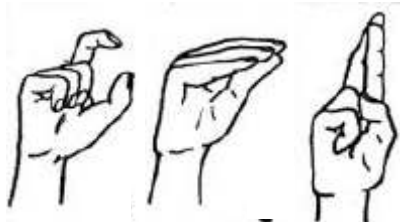
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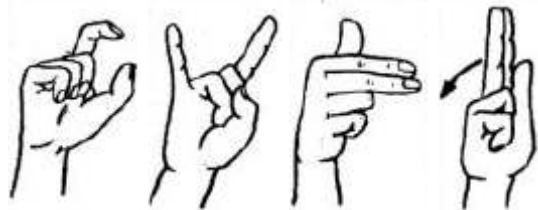


XXII

VII

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40.



XXII

XII

XXI

IX



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# (R) Poles Apart (I0/I0)

Numeric Key for Identifying the Signs

