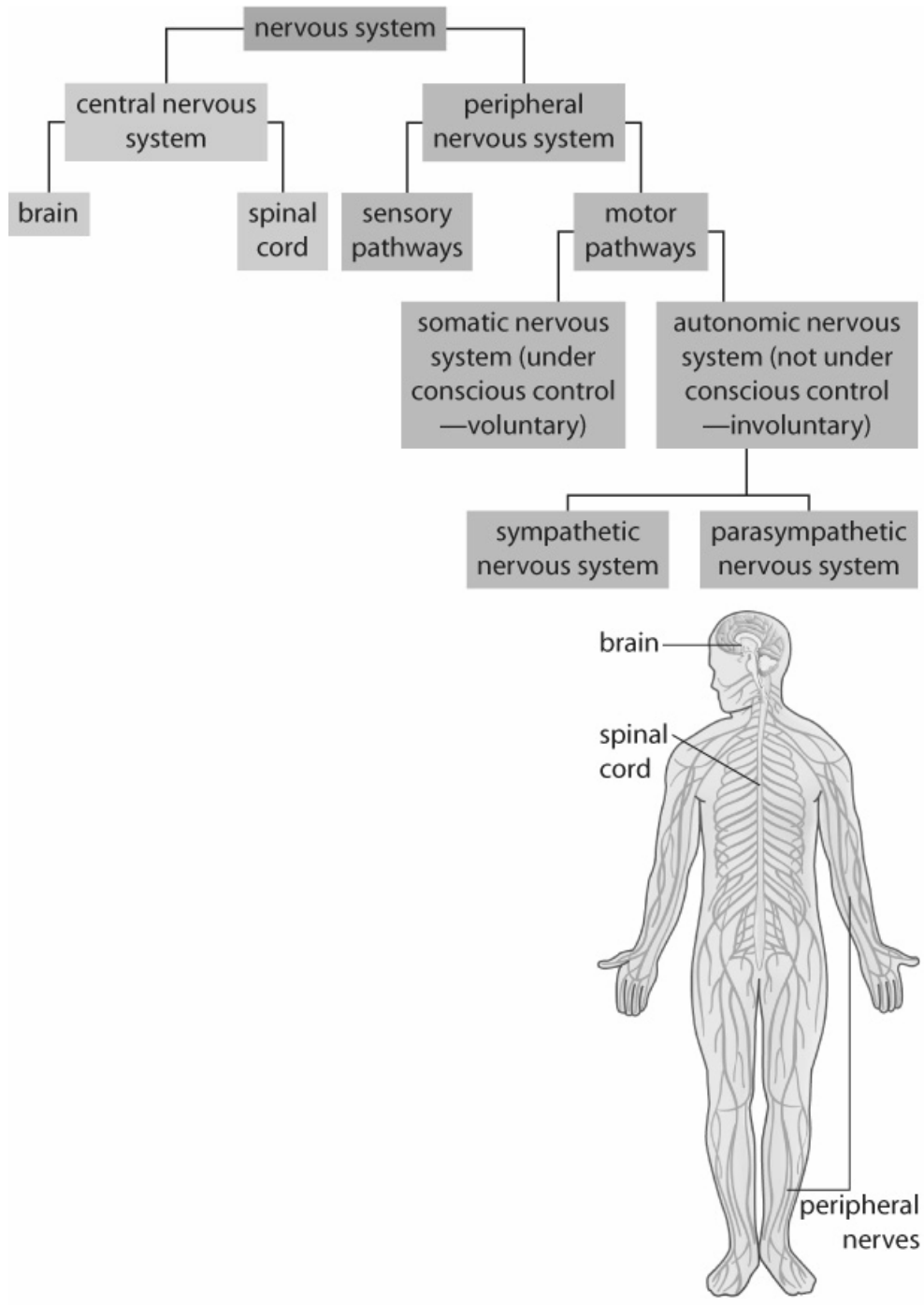
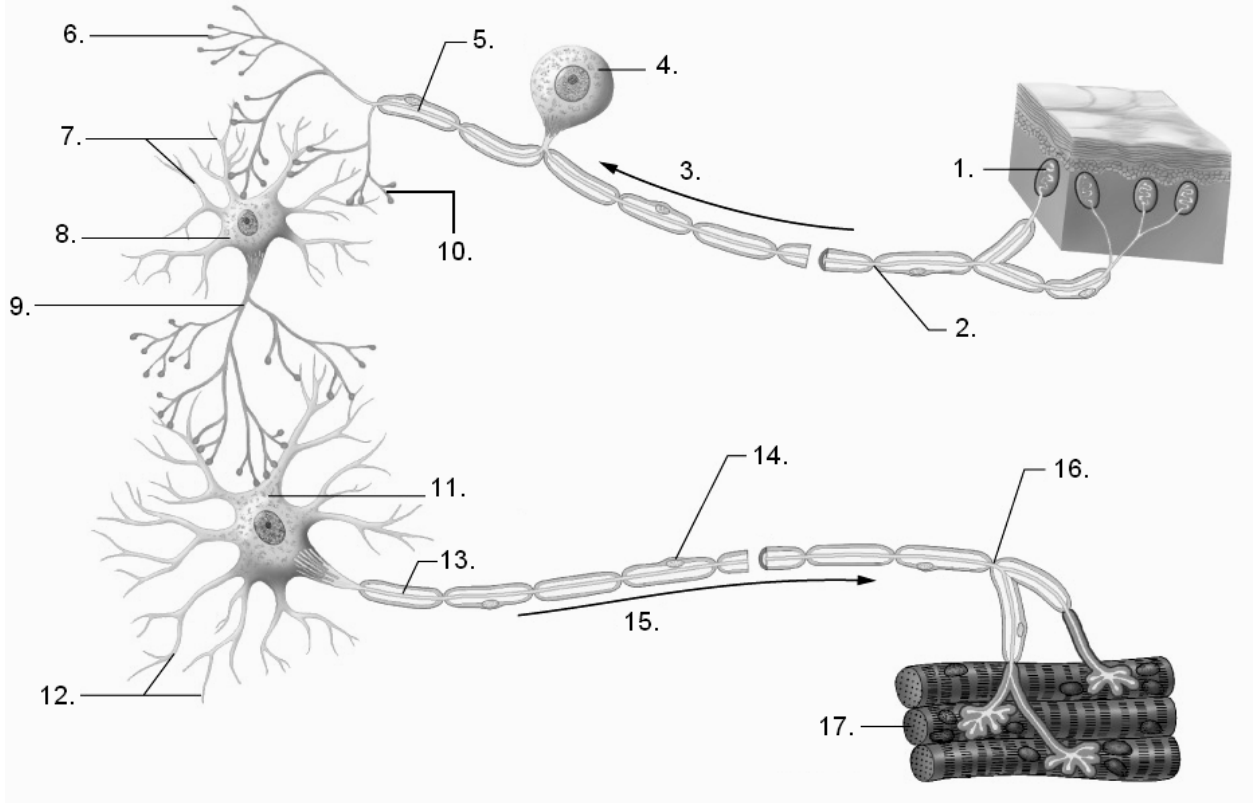


Organization of the Human Nervous System



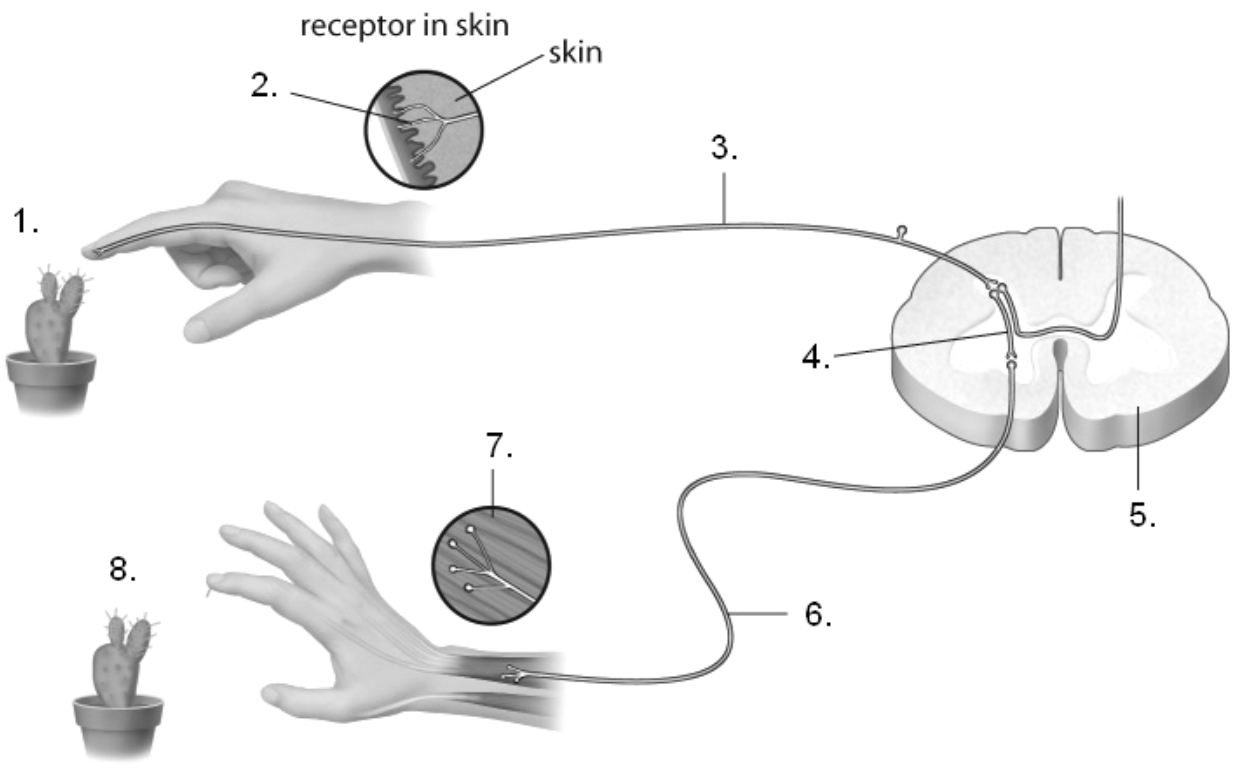
The organization of the human nervous system.

Label 1 through 17 on the following diagram.



- | | |
|----------|-----------|
| 1. _____ | 10. _____ |
| 2. _____ | 11. _____ |
| 3. _____ | 12. _____ |
| 4. _____ | 13. _____ |
| 5. _____ | 14. _____ |
| 6. _____ | 15. _____ |
| 7. _____ | 16. _____ |
| 8. _____ | 17. _____ |
| 9. _____ | |

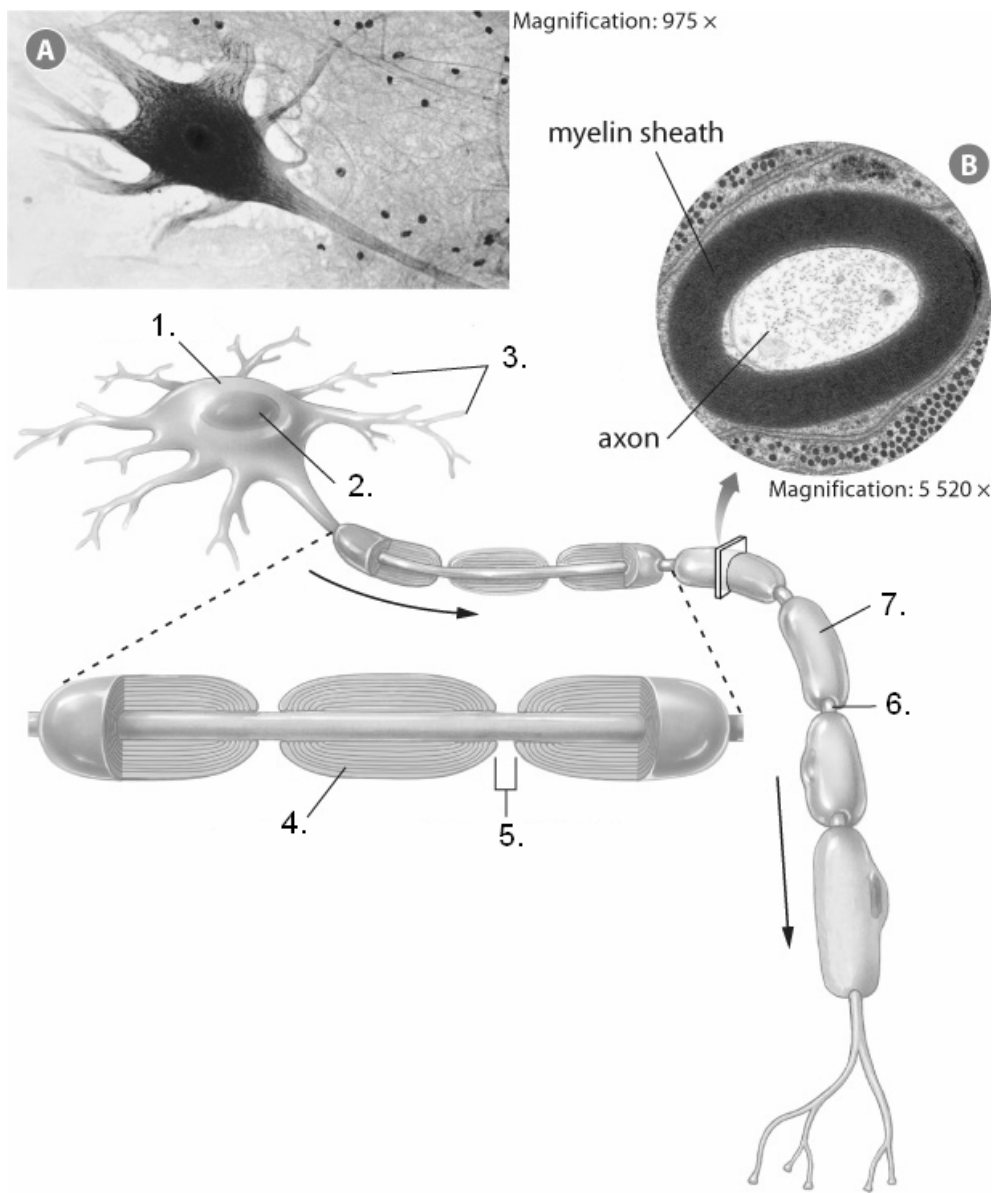
Label 1 through 8 on the following diagram.



- | | |
|----------|----------|
| 1. _____ | 5. _____ |
| 2. _____ | 6. _____ |
| 3. _____ | 7. _____ |
| 4. _____ | 8. _____ |

Parts of a Neuron

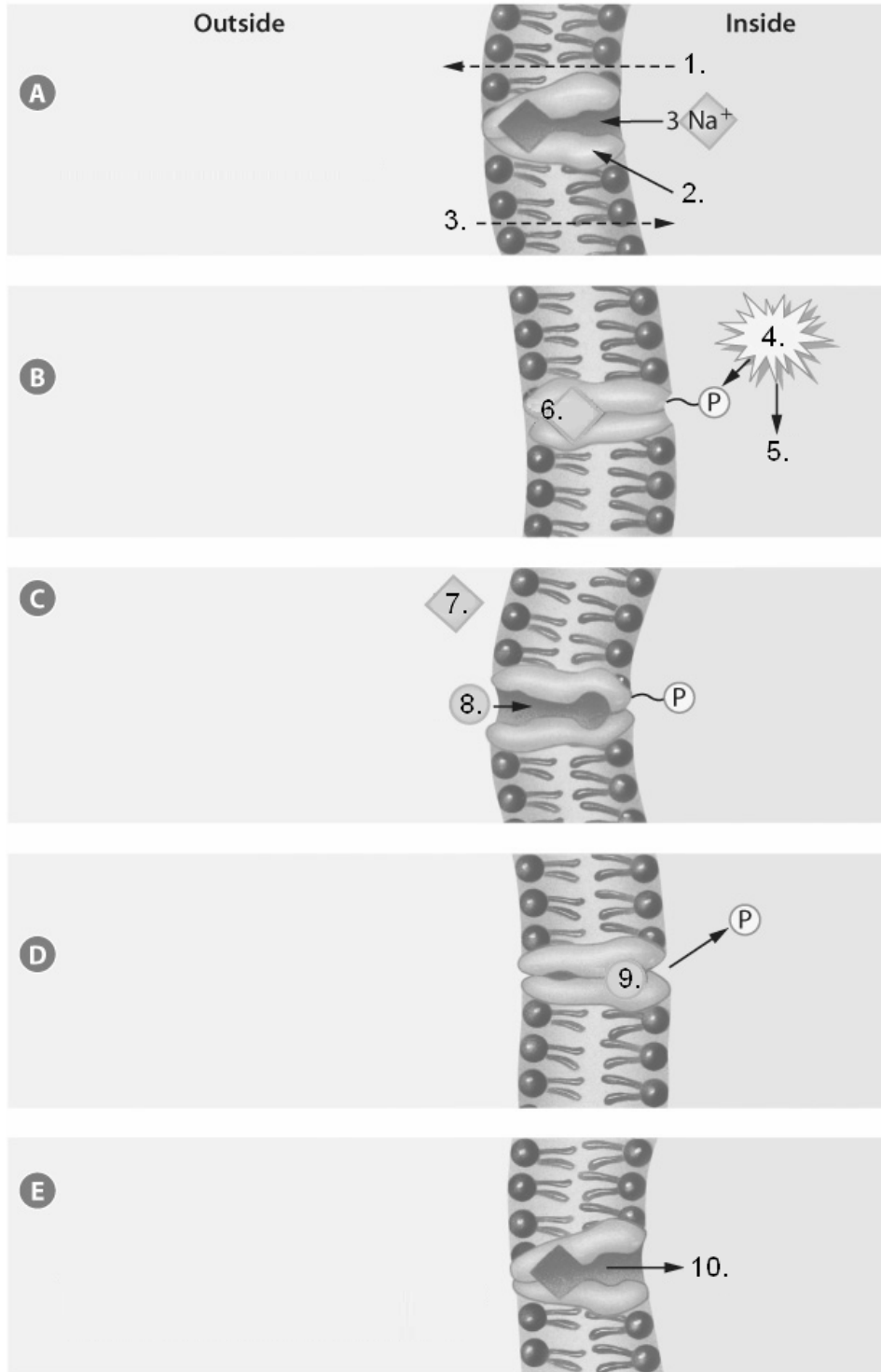
Label 1 through 7 on the following diagram.



- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____

Establishing the Resting Membrane Potential in a Neuron

Label 1 through 10 on the following diagram. Describe what is occurring in steps A through E.



- | | |
|----------|-----------|
| 1. _____ | 6. _____ |
| 2. _____ | 7. _____ |
| 3. _____ | 8. _____ |
| 4. _____ | 9. _____ |
| 5. _____ | 10. _____ |

A _____

B _____

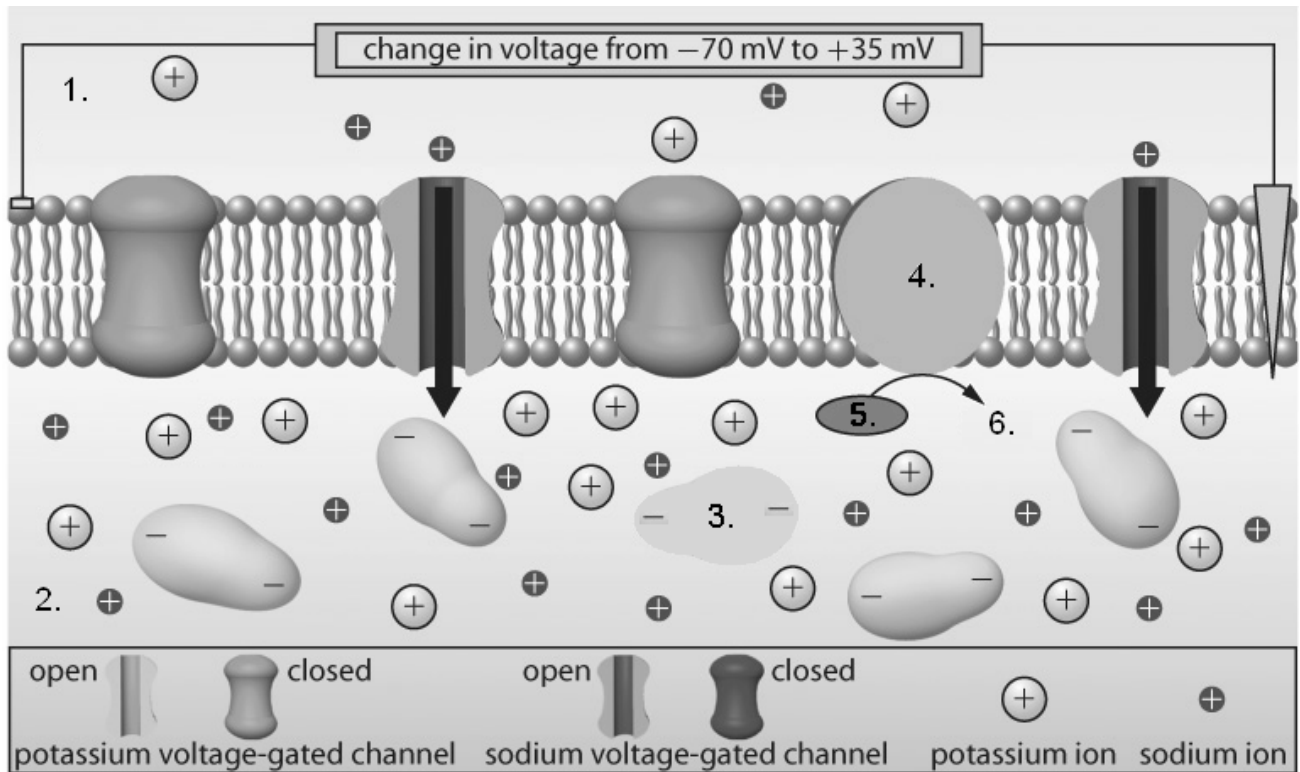
C _____

D _____

E _____

Depolarization and Repolarization of a Neuron

Label 1 through 6 on the following diagram.

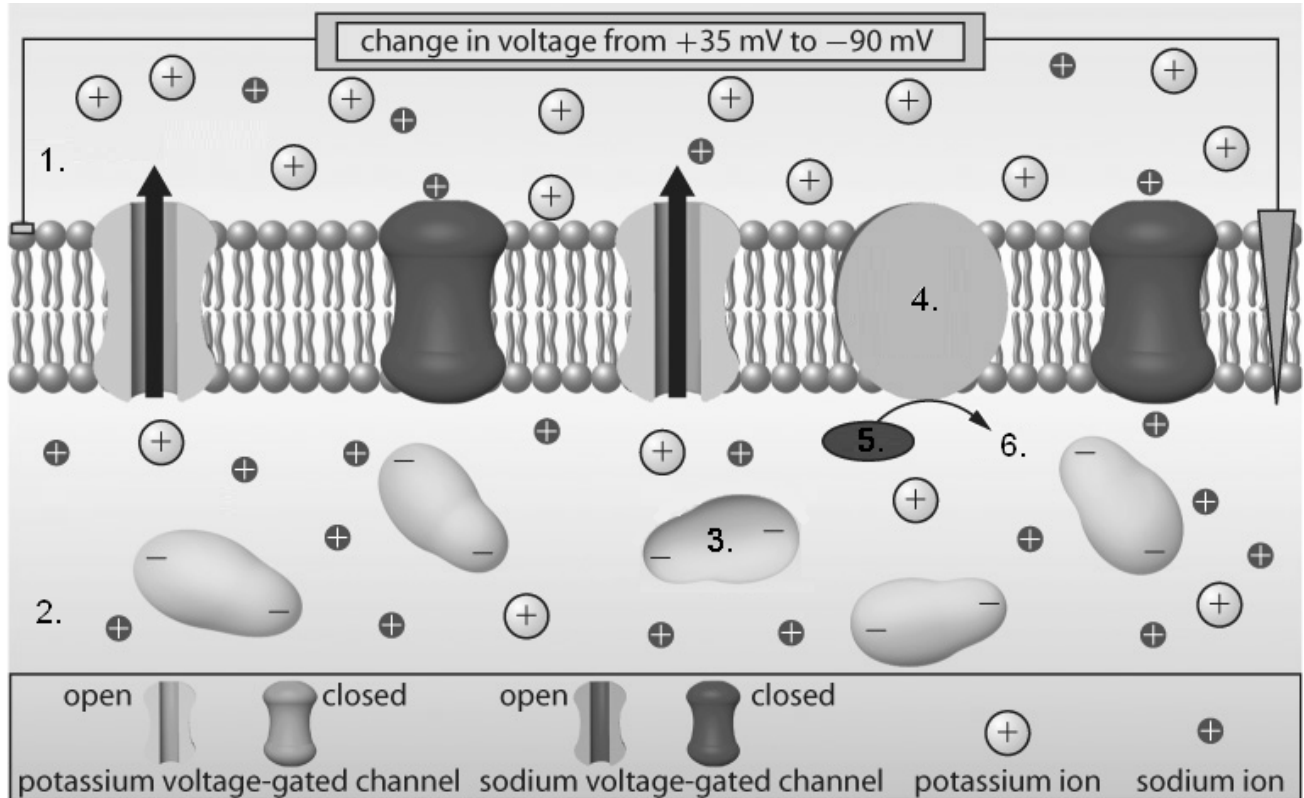


1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

What is this process called?

Depolarization and Repolarization of a Neuron (cont'd)

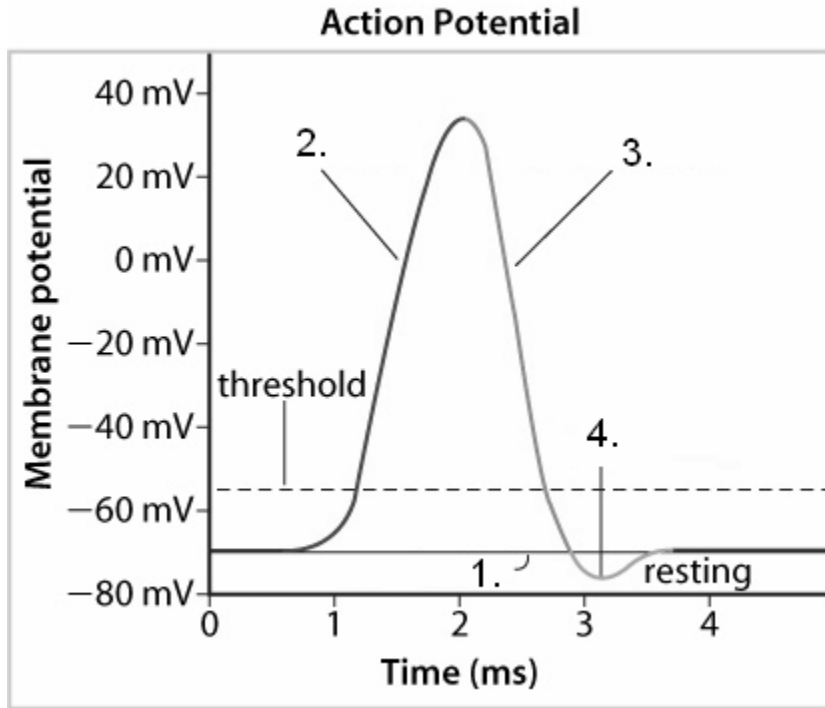
Label 1 through 6 on the following diagram.



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

What is this process called?

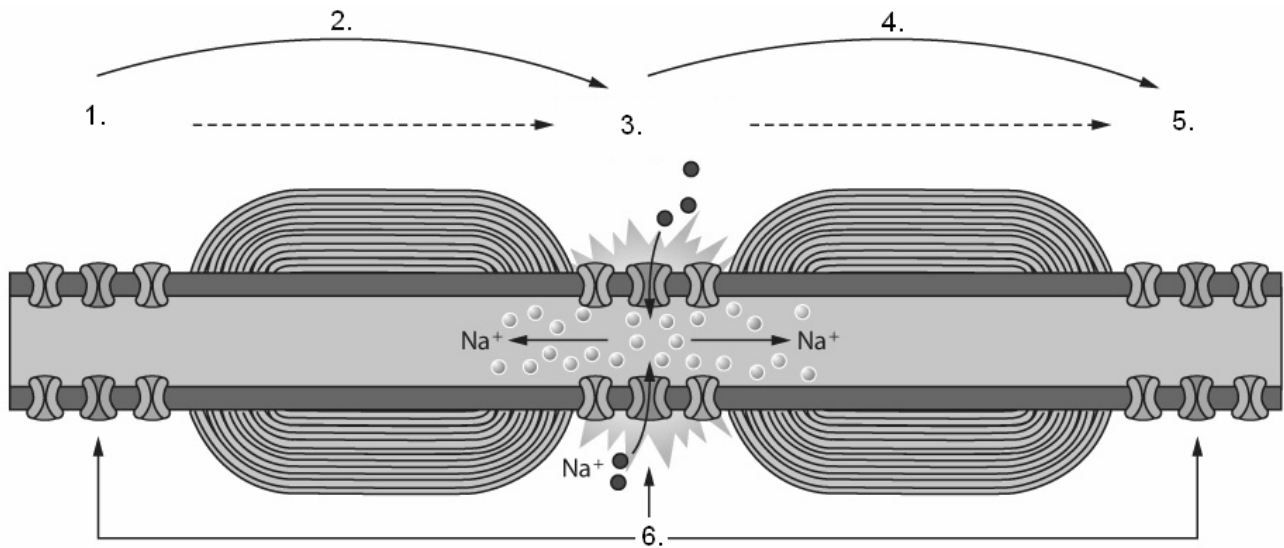
Label 1 through 4 on the following diagram.



1. _____
2. _____
3. _____
4. _____

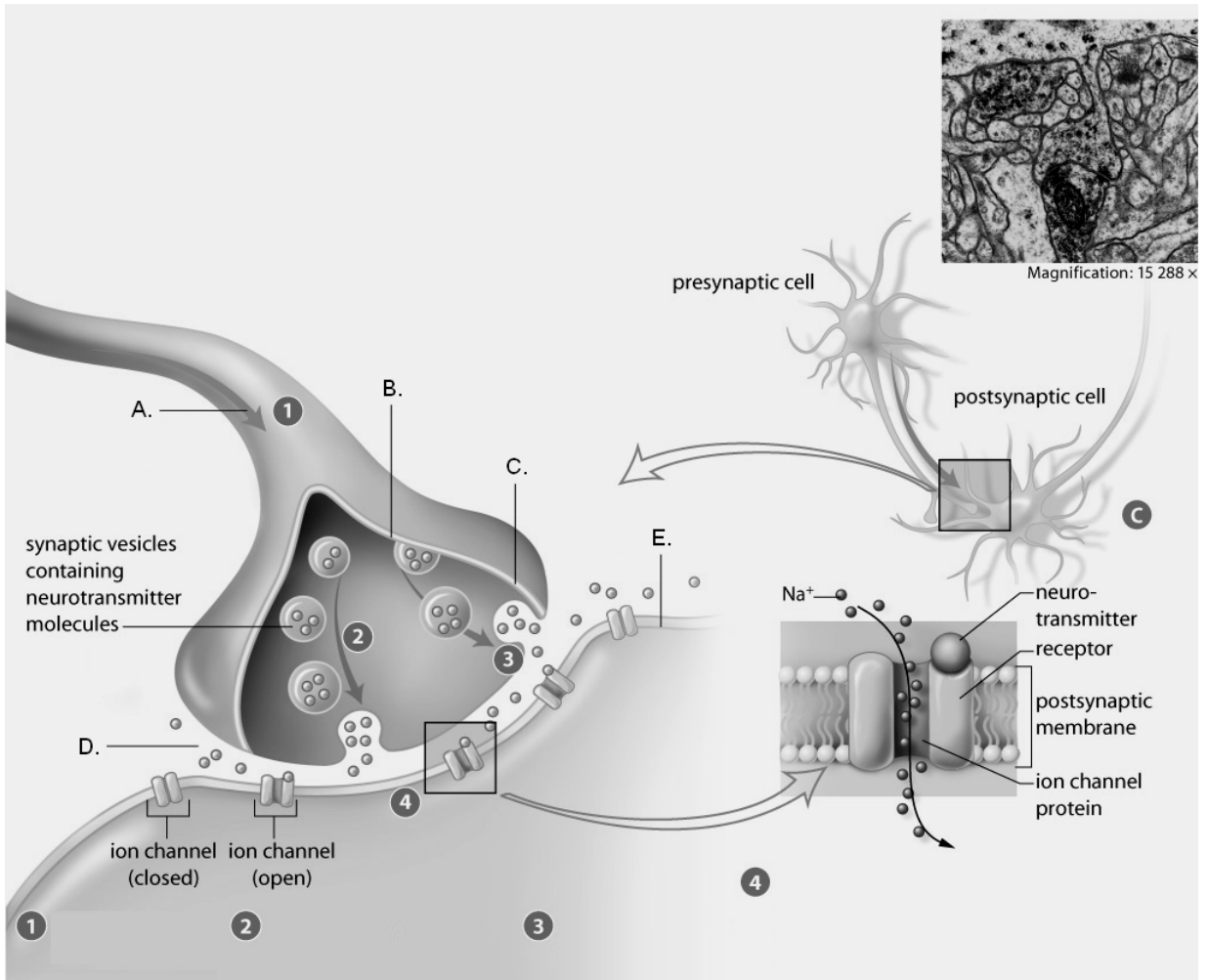
Saltatory Conduction

Label 1 through 6 on the following diagram.



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Label A through E on the following diagram. What occurs during steps 1 through 4?

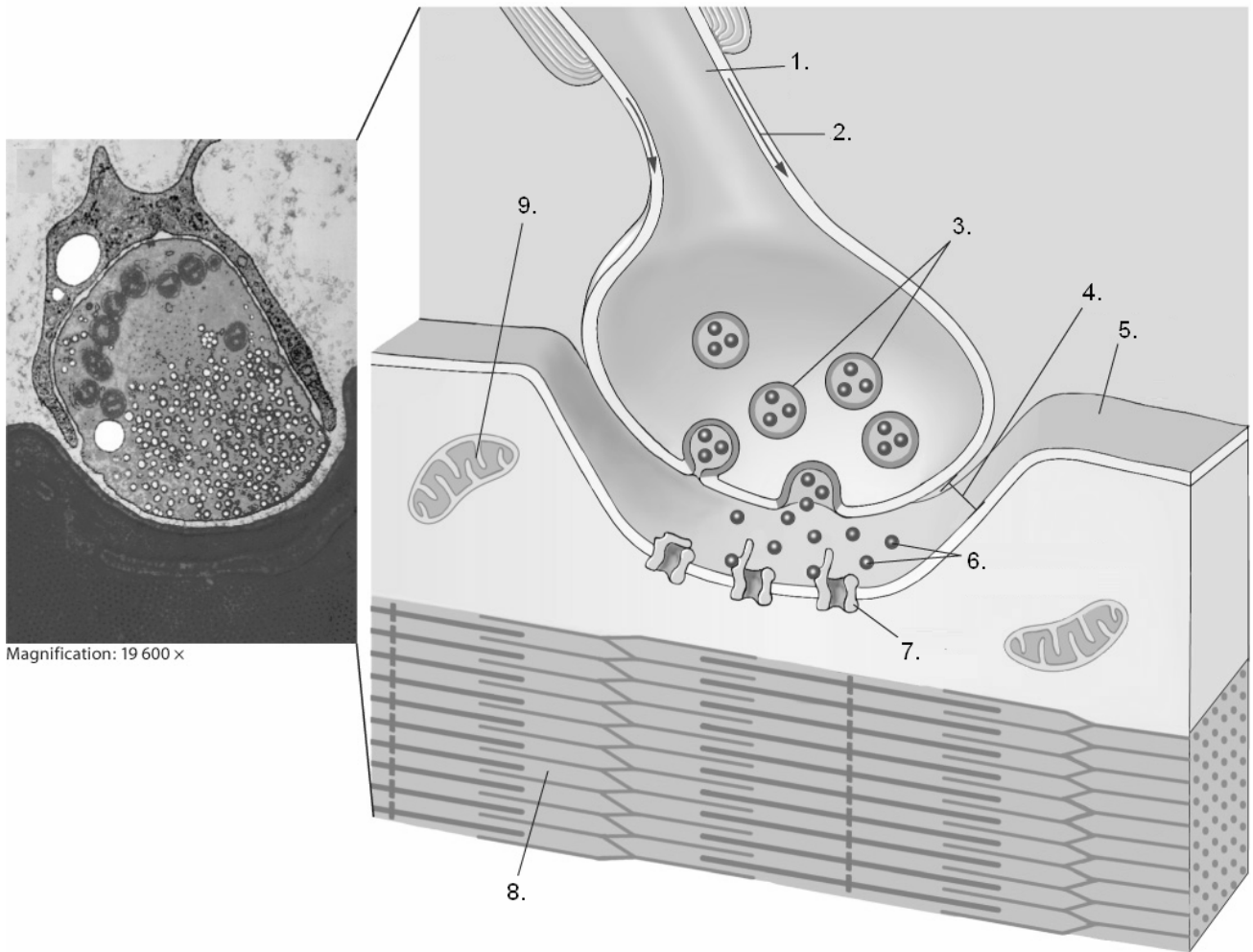


A. _____ D. _____
 B. _____ E. _____
 C. _____

1. _____
 2. _____
 3. _____
 4. _____

Neuromuscular Junction

Label 1 through 9 on the following diagram.



Magnification: 19 600 x

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____

CHAPTER 11	Neurotransmitters and Their Functions Quiz	BLM 11.1.15
ASSESSMENT		

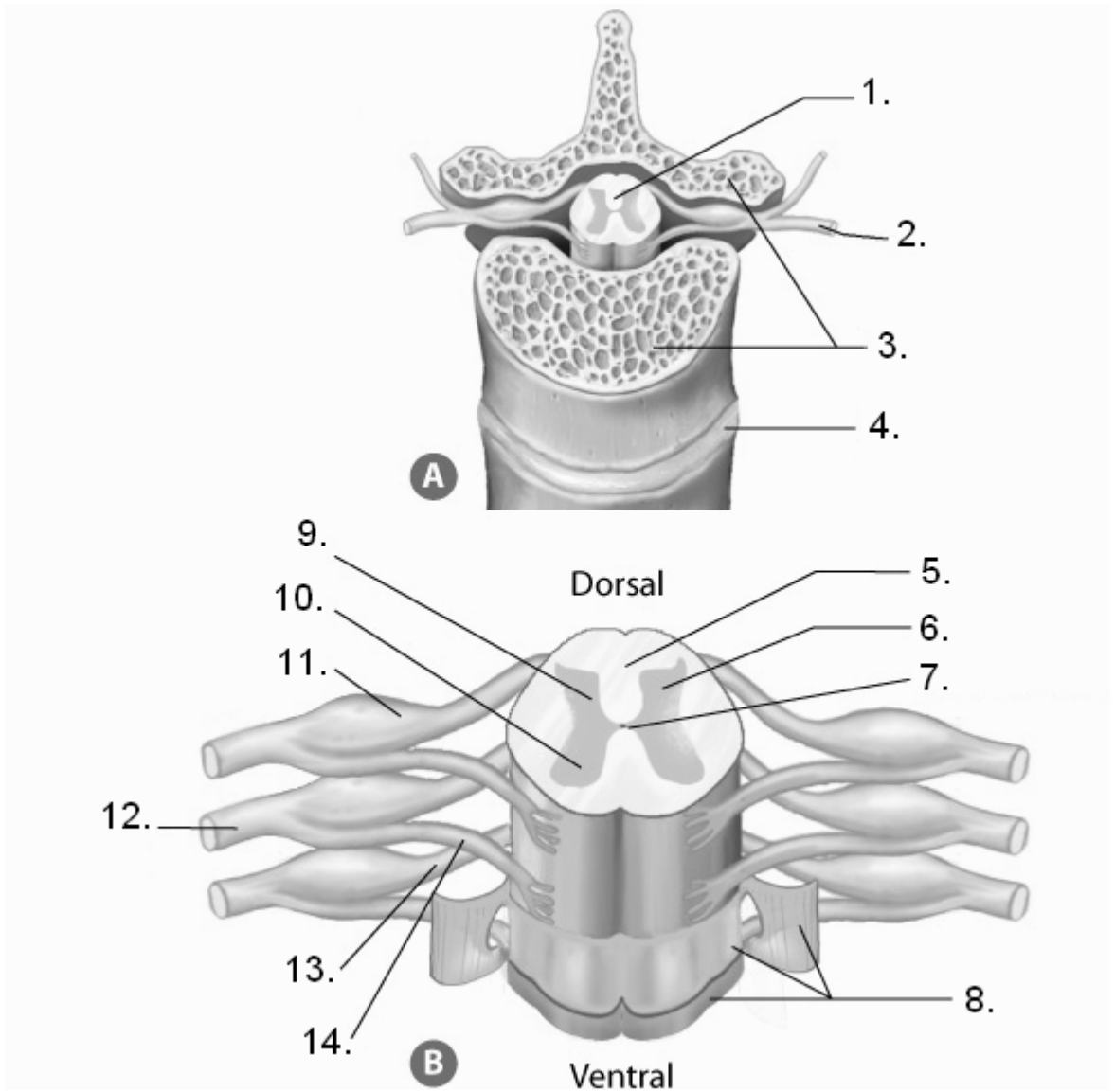
Instructions:

Fill in the appropriate neurotransmitter in the first column: norepinephrine, serotonin, dopamine, endorphins.

Fill in the blanks to describe the function and effects of each neurotransmitter.

Neurotransmitter	Function	Effects of abnormal production
	<ul style="list-style-type: none"> ▪ affects the brain synapses in the control of body movements ▪ is linked to _____ of pleasure, such as eating 	<ul style="list-style-type: none"> ▪ excessive production linked to schizophrenia, a disorder in which the individual's perception of reality is greatly distorted ▪ inadequate production linked to _____ disease, a progressive disorder that destroys neurons, causing tremors, slurred speech, and other coordination problems
	<ul style="list-style-type: none"> ▪ regulates _____ and sensory perception ▪ is involved in mood control 	<ul style="list-style-type: none"> ▪ inadequate amounts in the brain synapses linked to _____
	<ul style="list-style-type: none"> ▪ act as natural _____ in synapses in the brain ▪ also affects emotional areas of the brain 	<ul style="list-style-type: none"> ▪ deficiency linked to an increased risk of _____
	<ul style="list-style-type: none"> ▪ is used by the brain and some autonomic neurons ▪ complements the actions of the hormone epinephrine, which readies the body to respond to _____ or other stressful situations 	<ul style="list-style-type: none"> ▪ overproduction linked to high _____, anxiety, and insomnia ▪ deficiency linked to hunger cravings and _____

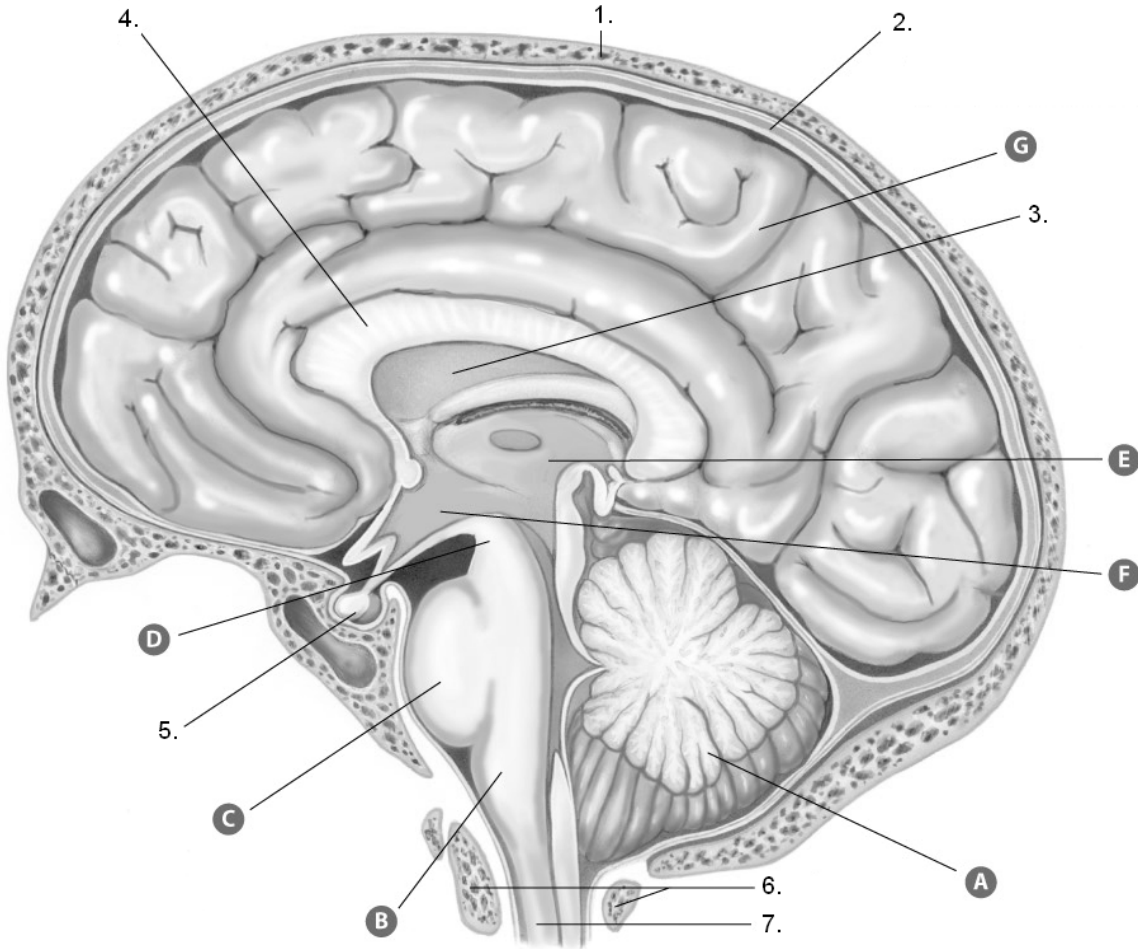
Label 1 through 14 on the following diagram.



- | | | | |
|----|-------|-----|-------|
| 1. | _____ | 8. | _____ |
| 2. | _____ | 9. | _____ |
| 3. | _____ | 10. | _____ |
| 4. | _____ | 11. | _____ |
| 5. | _____ | 12. | _____ |
| 6. | _____ | 13. | _____ |
| 7. | _____ | 14. | _____ |

The Structure of the Human Brain

Label 1 through 7 and A through G on the following diagram.



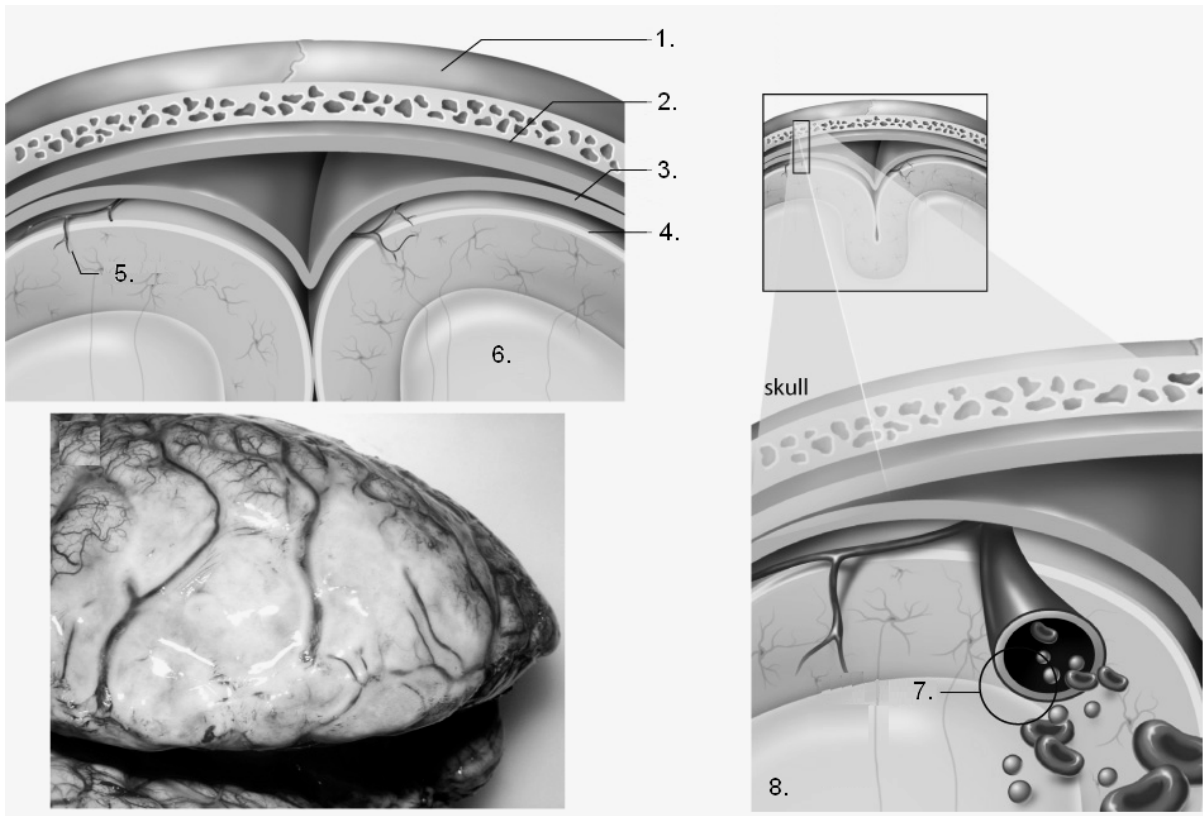
1. _____
 2. _____
 3. _____
 4. _____

5. _____
 6. _____
 7. _____

A _____
 B _____
 C _____
 D _____

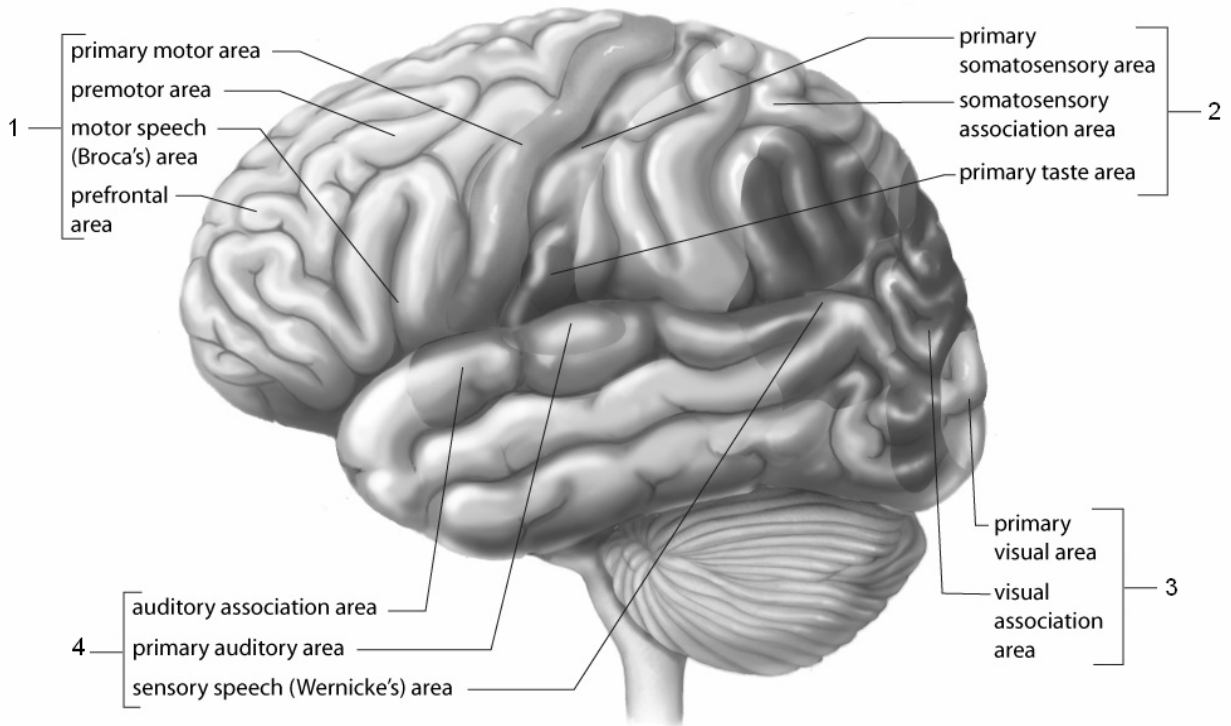
E _____
 F _____
 G _____

Label the following diagrams.



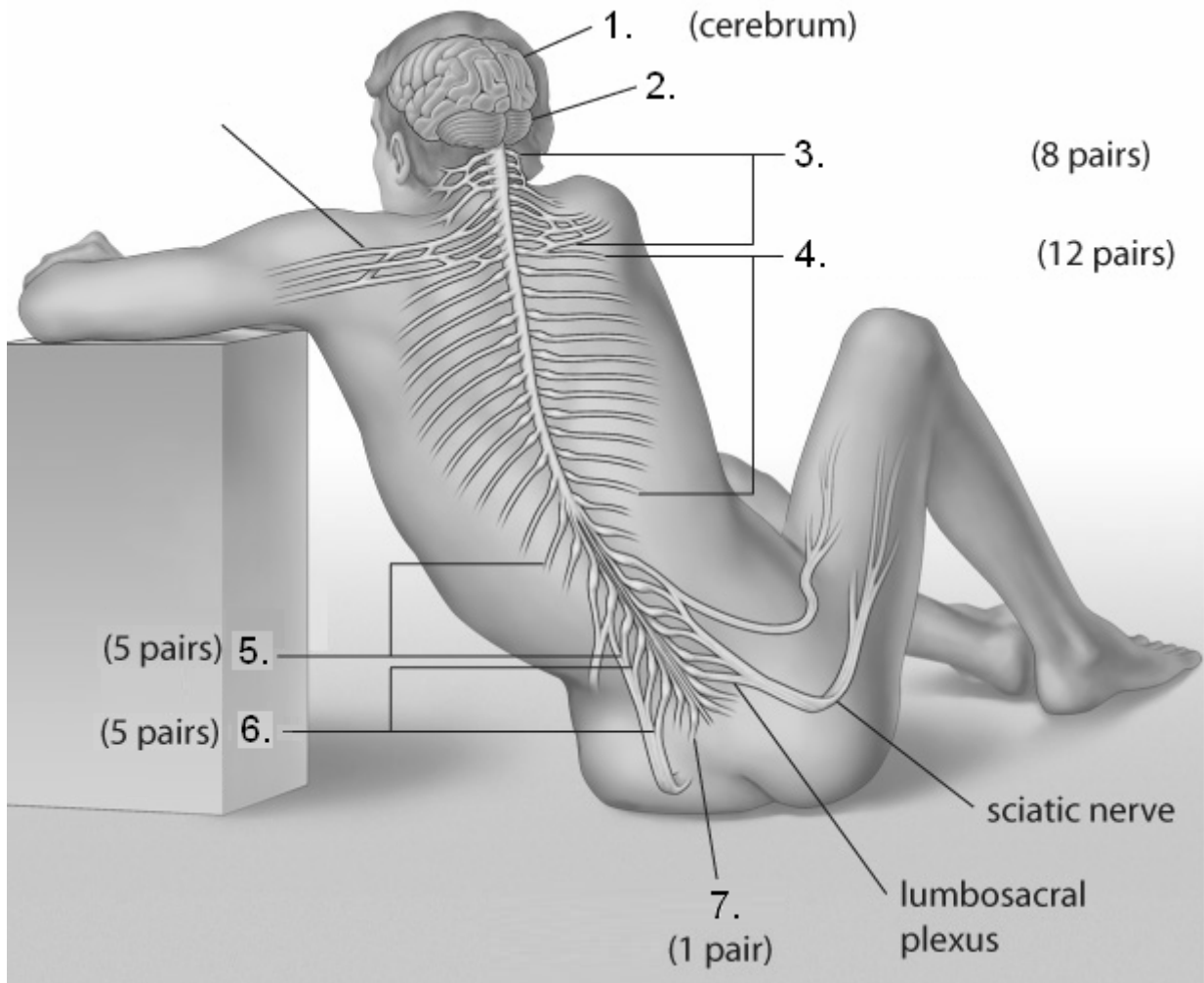
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

Label the following diagram.



1. _____
2. _____
3. _____
4. _____

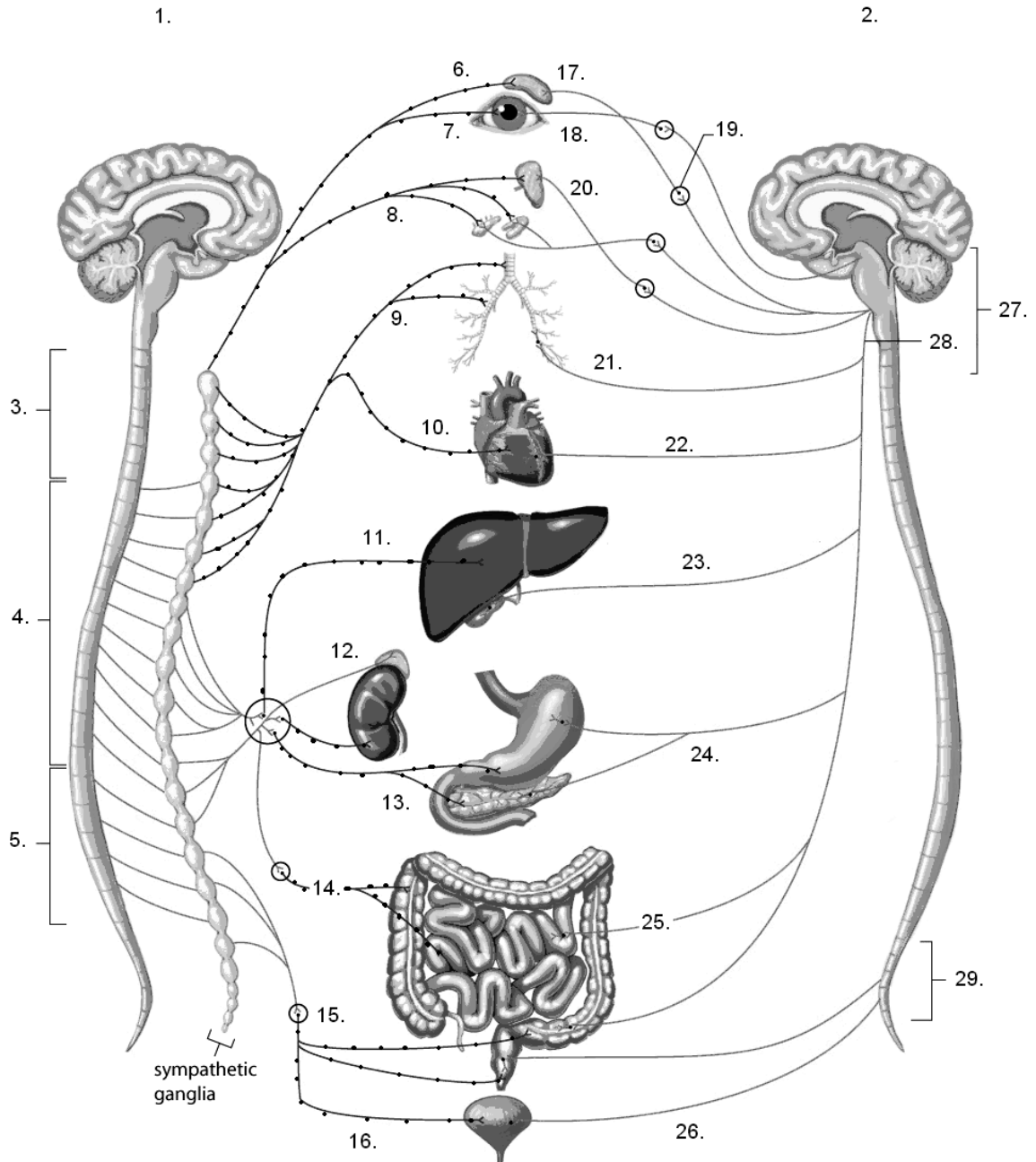
Label the following spinal nerve map.



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

Sympathetic and Parasympathetic Nervous Systems

Label 1 through 29 on the following diagram of the sympathetic and parasympathetic nervous systems.



Key:
 — Acetylcholine is neurotransmitter.
 - - Norepinephrine is neurotransmitter.

CHAPTER 12	Sympathetic and Parasympathetic Nervous Systems (cont'd)	BLM 12.3.2
HANDOUT		

- | | |
|-----------|-----------|
| 1. _____ | 16. _____ |
| 2. _____ | 17. _____ |
| 3. _____ | 18. _____ |
| 4. _____ | 19. _____ |
| 5. _____ | 20. _____ |
| 6. _____ | 21. _____ |
| 7. _____ | 22. _____ |
| 8. _____ | 23. _____ |
| 9. _____ | 24. _____ |
| 10. _____ | 25. _____ |
| 11. _____ | 26. _____ |
| 12. _____ | 27. _____ |
| 13. _____ | 28. _____ |
| 14. _____ | 29. _____ |
| 15. _____ | |