

9 Advance Mathematics
Lesson – 4.7 (Absolute value function)

Name in English -

Describe the translation in $g(x)$ as it relates to the graph of the parent function.

1. $g(x) = |x| - 5$

- a) Translate 5 units up
- b) Translate 5 units down
- c) Translate 5 units right
- d) Translate 5 units left

2. $g(x) = |x| + 4$

- a) Translate 4 units up
- b) Translate 4 units down
- c) Translate 4 units right
- d) Translate 4 units left

3. $g(x) = |x - 3|$

- a) Translate 3 units up
- b) Translate 3 units down
- c) Translate 3 units right
- d) Translate 3 units left

4. $g(x) = |x + 4|$

- a) Translate 4 units up
- b) Translate 4 units down
- c) Translate 4 units right
- d) Translate 4 units left

5. $g(x) = |x + 6| - 2$

- a) Translate 6 units up and 2 units down
- b) Translate 6 units left and 2 units down

- c) Translate 2 units up and 6 units left
- d) Translate 6 units right and 2 units up

6. $g(x) = |x - 2| + 7$

- a) Translate 2 units right and 7 units up
- b) Translate 2 units left and 7 units up
- c) Translate 2 units left and 7 units up
- d) Translate 7 units right and 2 units up

7. $g(x) = |x + 1| - 3$

- a) Translate 1 unit left 3 units up
- b) Translate 1 unit left and 3 units down
- c) Translate 1 unit right and 3 units up
- d) Translate 1 unit right and 3 units up

8. $g(x) = |x| + 1$

- a) Translate 1 units up
- b) Translate 1 units down
- c) Translate 1 units right
- d) Translate 1 units left

9. $g(x) = |x - 8|$

- a) Translate 8 units up
- b) Translate 8 units down
- c) Translate 8 units right
- d) Translate 8 units left

10. $g(x) = |x - 11| + 2$

- a) Translate 11 units left and 2 units up
- b) Translate 11 units left and 2 units down
- c) Translate 11 units right and 2 units up
- d) Translate 11 units right and 2 units down