

Graph the following equations in your graphing calculator. Explain how the graph changes from the $y = |x|$ graph to the new graph.

a. $y = |x + 5|$ b. $y = |x + 2|$ c. $y = |x - 6|$ d. $y = |x - 3|$

e. $y = |x| + 5$ f. $y = |x| + 2$ g. $y = |x| - 6$ h. $y = |x| - 3$

i. $y = 2|x|$ j. $y = \frac{1}{2}|x|$ k. $y = -|x|$

l. $y = |x + 4| - 2$ m. $y = |x - 3| + 6$ n. $y = |x - 3| - 10$

o. $y = 2|x| + 4$ p. $y = -3|x + 2| - 1$ q. $y = \frac{1}{3}|x| - 3$

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