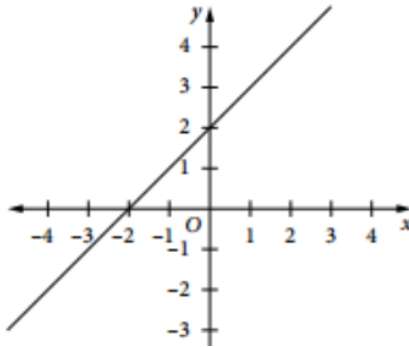
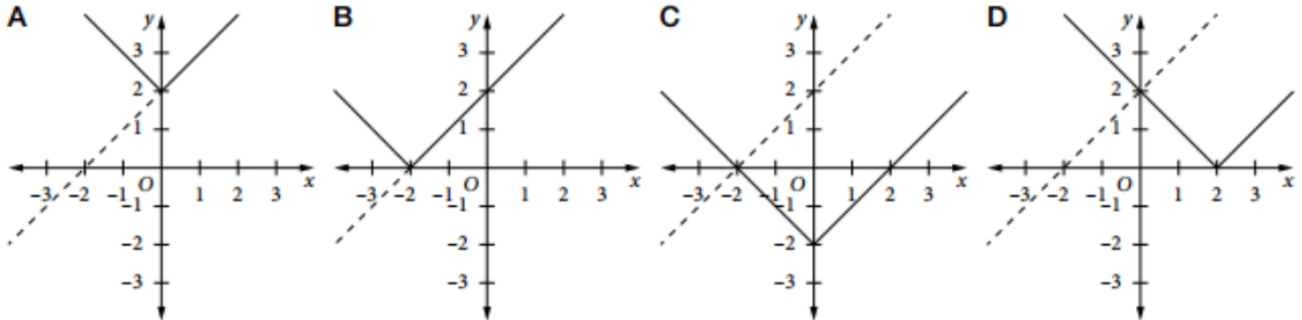


ABSOLUTE VALUE FUNCTIONS

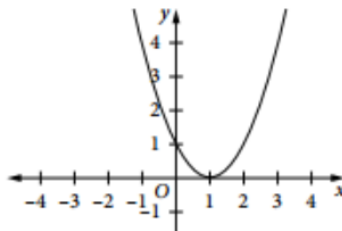
1 The graph of $y = x + 2$ is shown.



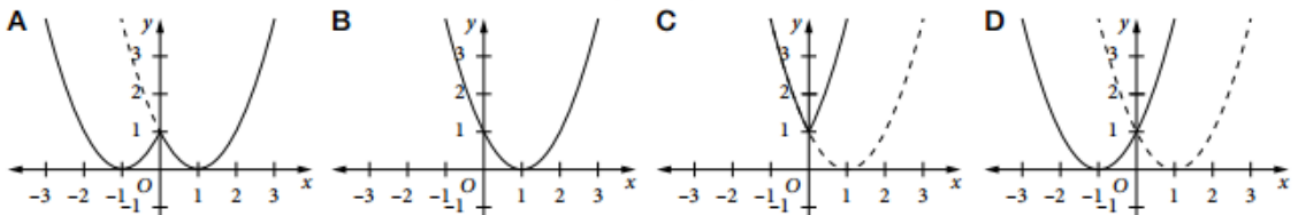
Which of the following represents the graph of $y = |x + 2|$?



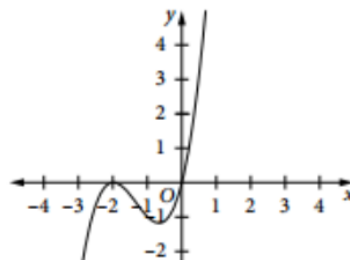
2 The graph of $y = (x - 1)^2$ is shown.



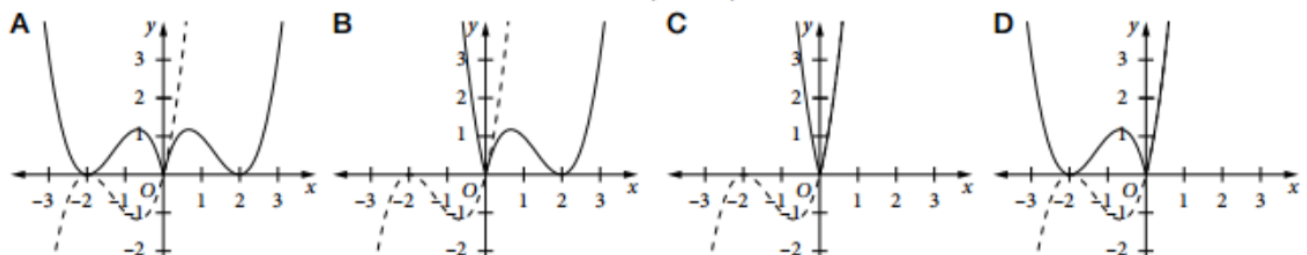
Which of the following represents the graph of $y = (|x| - 1)^2$?



3 The graph of $y = x(x + 2)^2$ is shown.



Which of the following represents the graph of $y = |x|(|x + 2|)^2$?

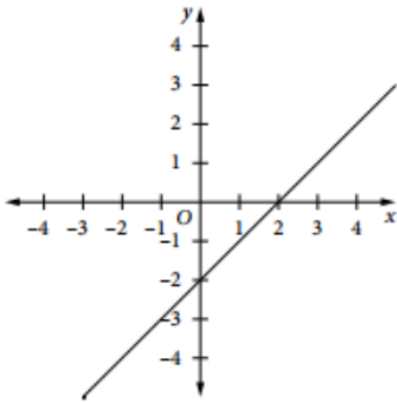


ABSOLUTE VALUE FUNCTIONS

4 Given the graph of $y = x - 2$, draw:

(a) $y = |x - 2|$

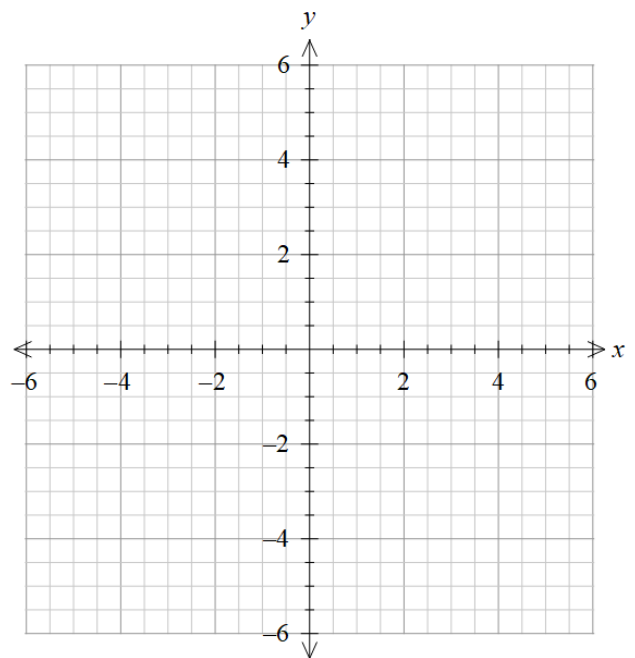
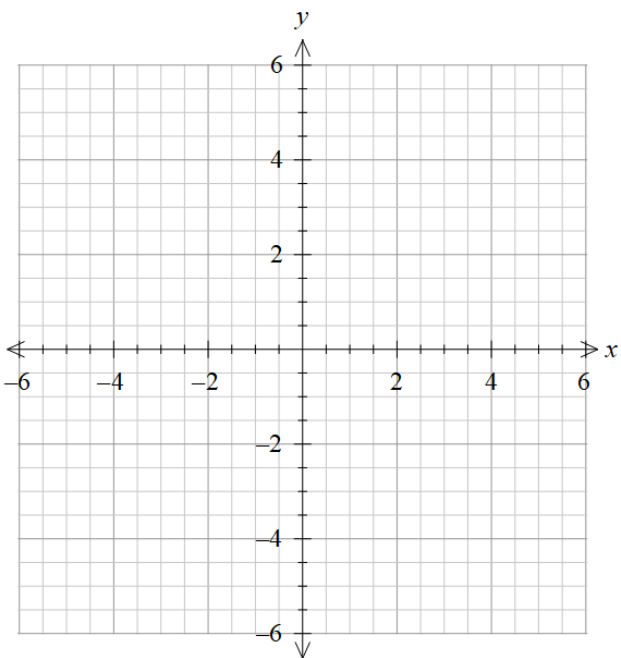
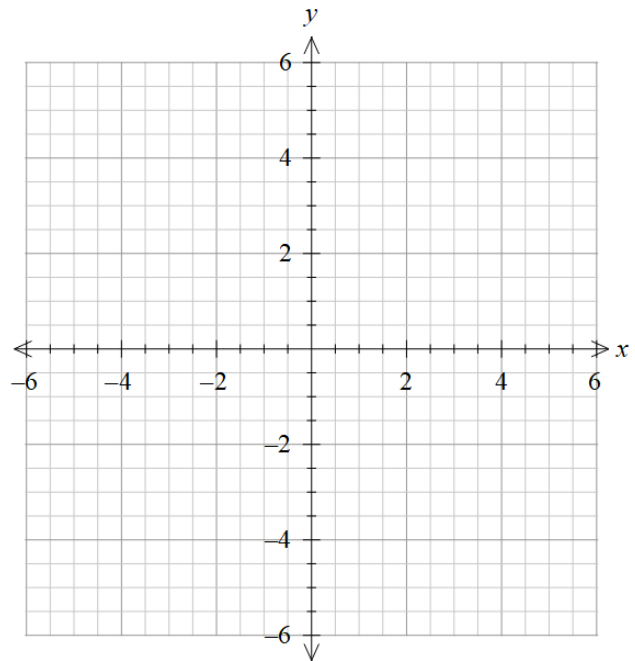
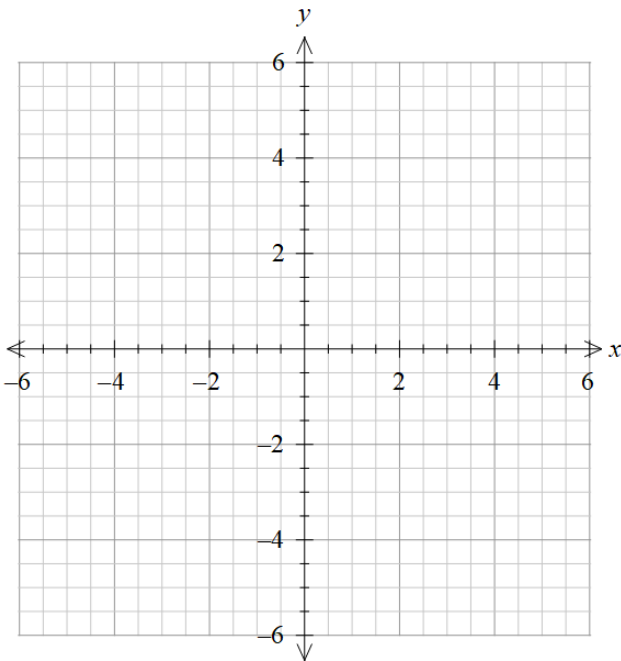
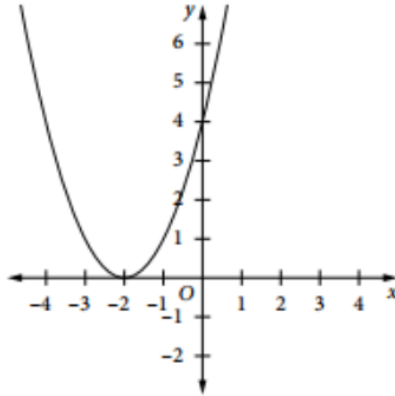
(b) $y = |x| - 2$



5 Given the graph of $y = (x + 2)^2$, draw:

(a) $y = |(x + 2)^2|$

(b) $y = (|x| + 2)^2$

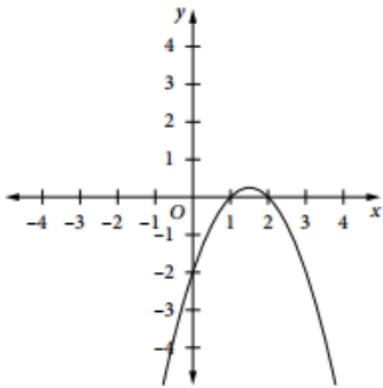


ABSOLUTE VALUE FUNCTIONS

6 Given the graph of $y = (x - 1)(2 - x)$, draw:

(a) $y = |(x - 1)(2 - x)|$

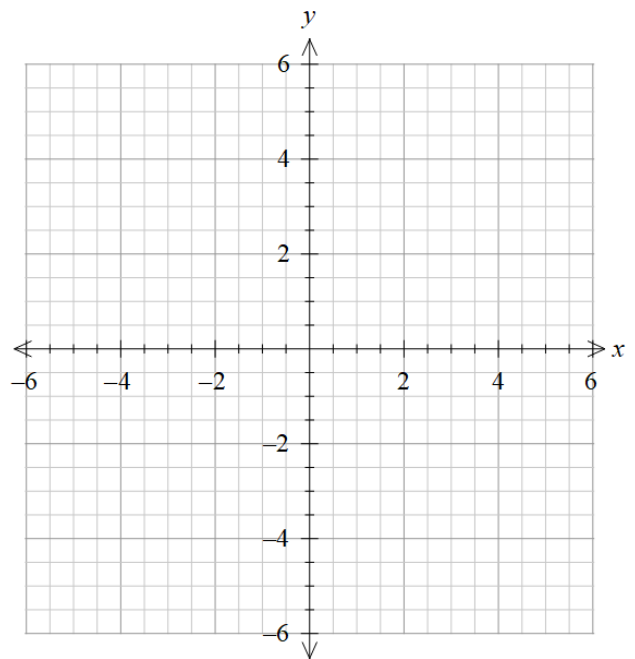
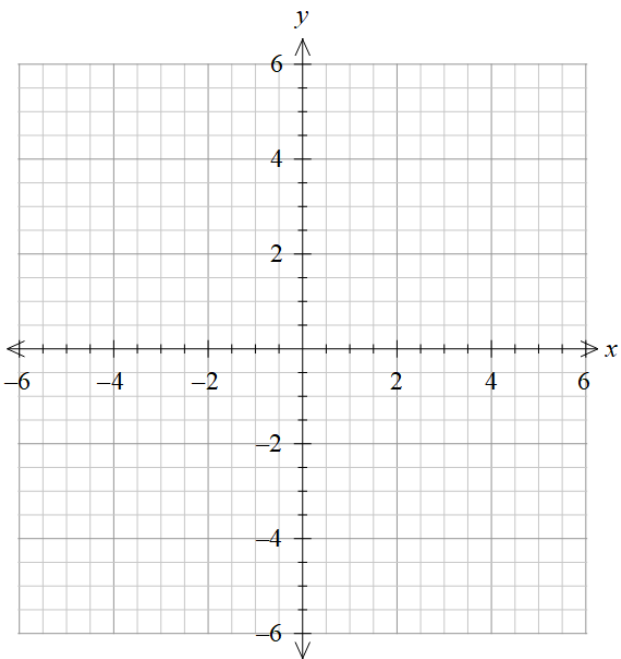
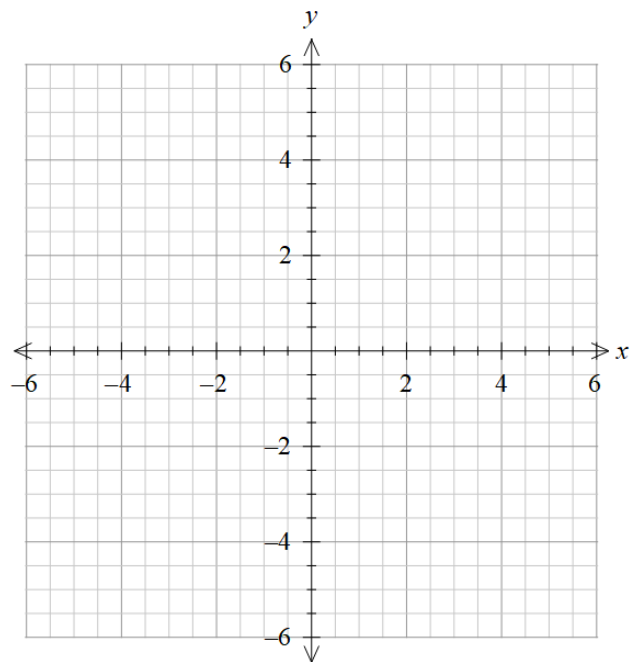
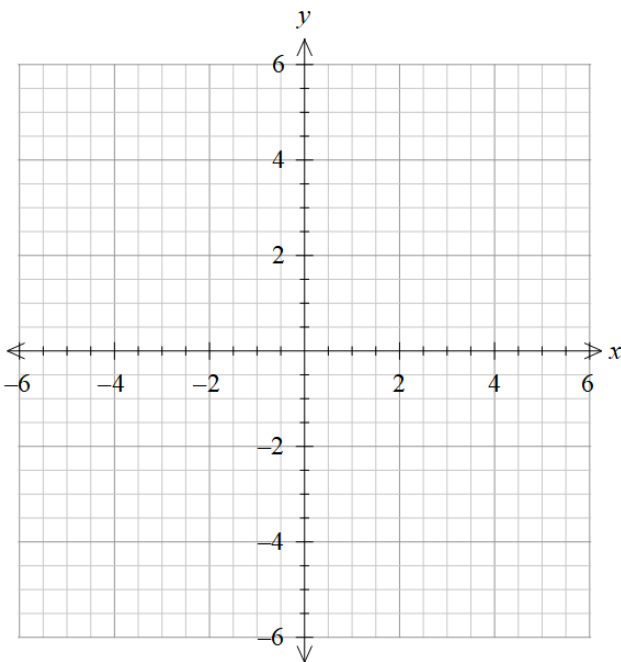
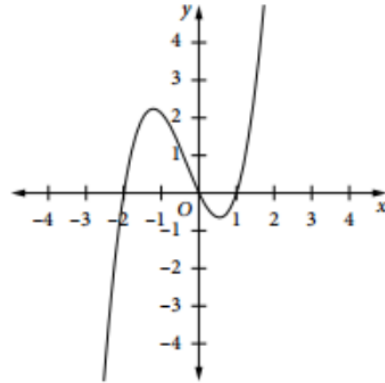
(b) $y = (|x| - 1)(2 - |x|)$



7 Given the graph of $y = x(x - 1)(x + 2)$, draw:

(a) $y = |x(x - 1)(x + 2)|$

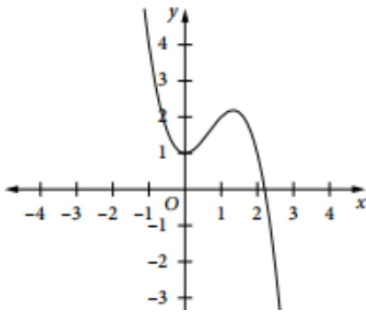
(b) $y = |x|(|x| - 1)(|x| + 2)$



ABSOLUTE VALUE FUNCTIONS

10 Given the graph of $y = -x^3 + 2x^2 + 1$, draw:

(a) $y = |-x^3 + 2x^2 + 1|$ (b) $y = -|x|^3 + 2|x|^2 + 1$



11 Given the graph of $y = x^2 + 2x + 2$, draw:

(a) $y = |x^2 + 2x + 2|$ (b) $y = |x|^2 + 2|x| + 2$

