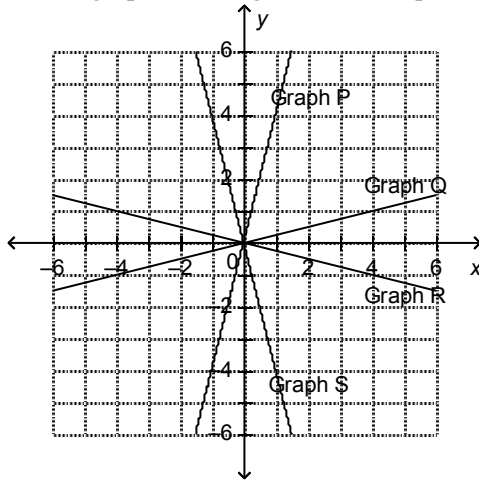


Practice Questions - Unit 4.4

Multiple Choice

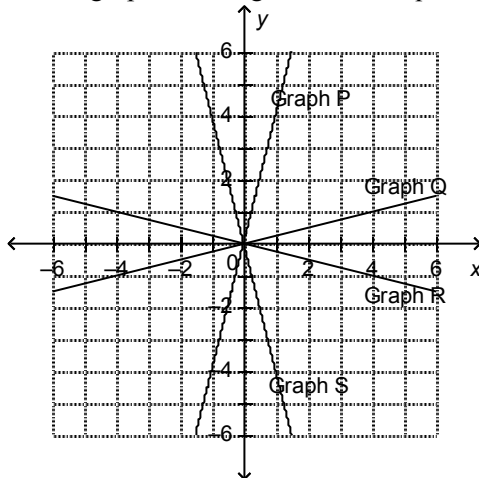
Identify the choice that best completes the statement or answers the question.

- ____ 1. Which graph on this grid has the equation $y = 4x$?



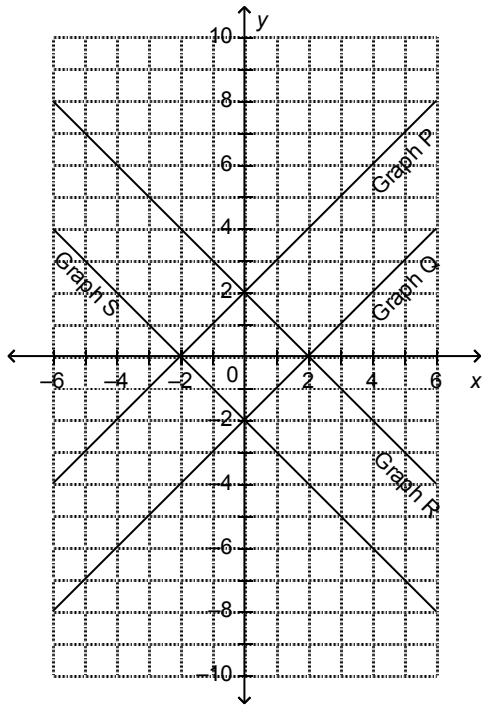
- a. Graph Q b. Graph R c. Graph S d. Graph P

- ____ 2. Which graph on this grid has the equation $y = -0.3x$?



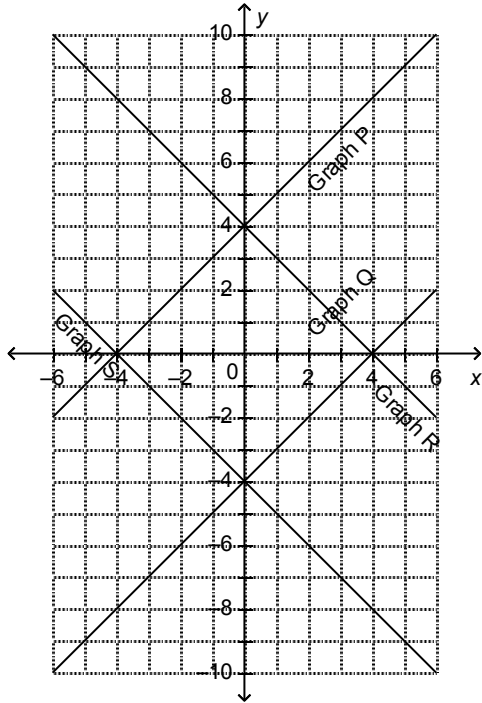
- a. Graph S b. Graph R c. Graph Q d. Graph P

- ____ 3. Which graph on this grid has the equation $y = x - 2$?



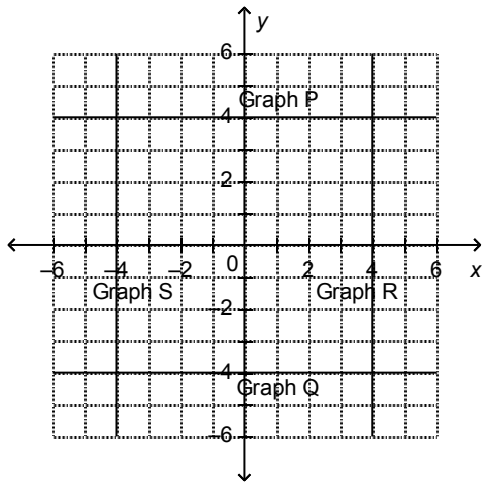
- a. Graph S b. Graph Q c. Graph P d. Graph R

_____ 4. Which graph on this grid has the equation $y = -x + 4$?



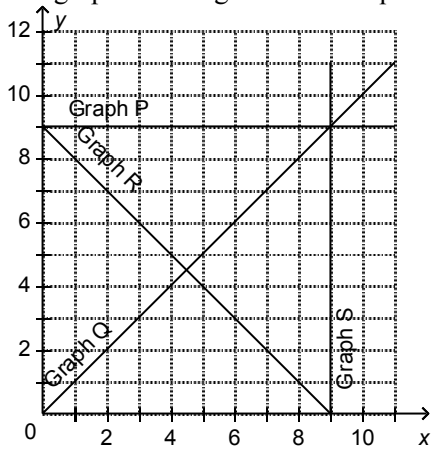
- a. Graph S b. Graph P c. Graph R d. Graph Q

_____ 5. Which graph on this grid has the equation $y = -4$?



- a. Graph P b. Graph S c. Graph R d. Graph Q

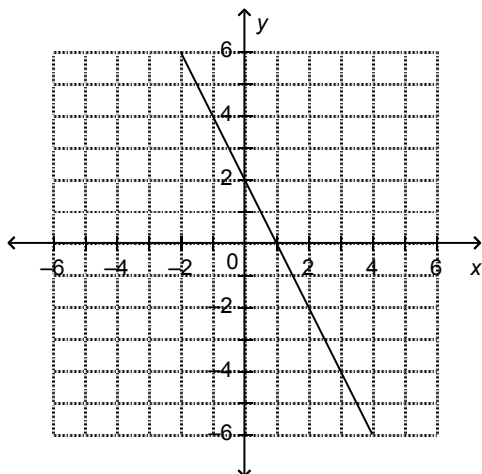
_____ 6. Which graph on this grid has the equation $x = 9$?



- a. Graph S b. Graph Q c. Graph R d. Graph P

_____ 7. Which equation describes the graph below?

- i) $y = 2x$
 ii) $y = 2x + 2$
 iii) $y = -x + 2$
 iv) $y = -2x + 2$



a. iii

b. ii

c. iv

d. i

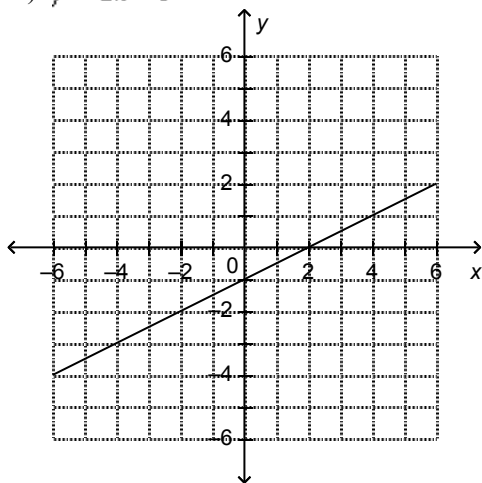
8. Which equation describes the graph below?

i) $y = \frac{1}{2}x + 1$

ii) $y = \frac{1}{2}x - 1$

iii) $y = -2x - 1$

iv) $y = 2x - 1$



a. iii

b. i

c. ii

d. iv

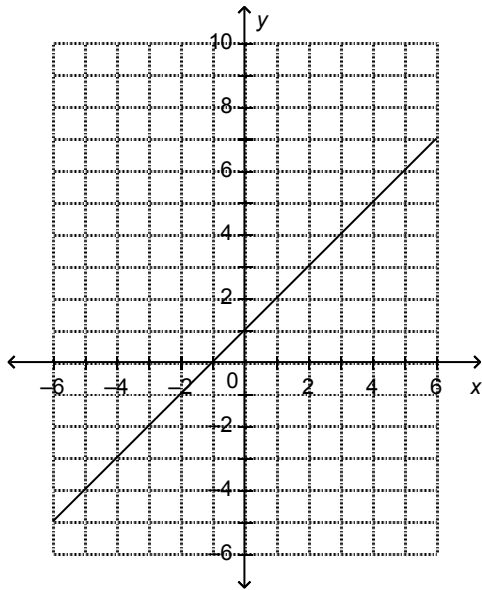
9. Which equation describes the graph below?

i) $x + y = -1$

ii) $x - y = -1$

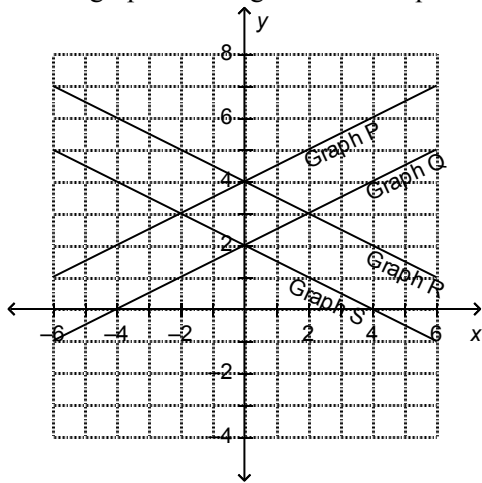
iii) $x + y = 1$

iv) $x - y = 1$



- a. iii b. i c. ii d. iv

10. Which graph on this grid has the equation $x + 2y = 4$?

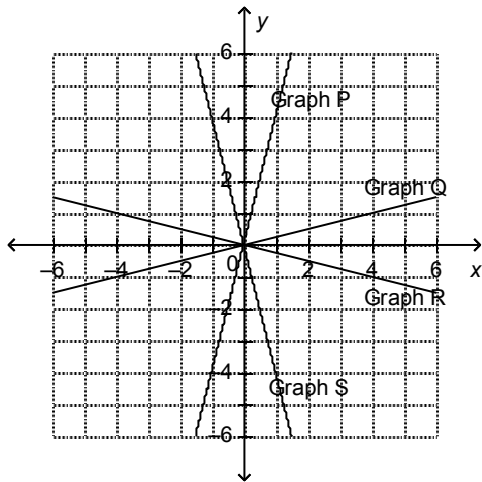


- a. Graph Q b. Graph P c. Graph S d. Graph R

Short Answer

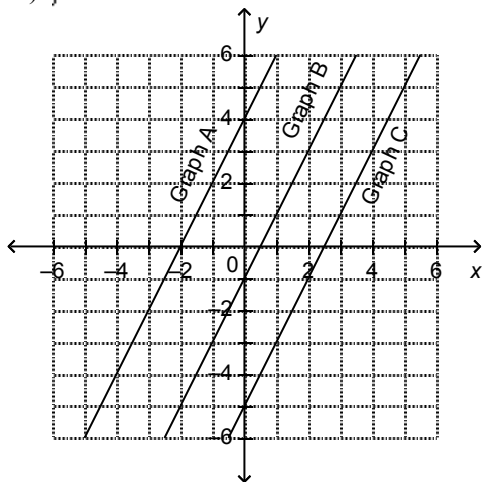
11. Match each equation with a graph on the grid below.

- i) $y = -0.25x$
- ii) $y = 4x$
- iii) $y = -4x$
- iv) $y = 0.25x$



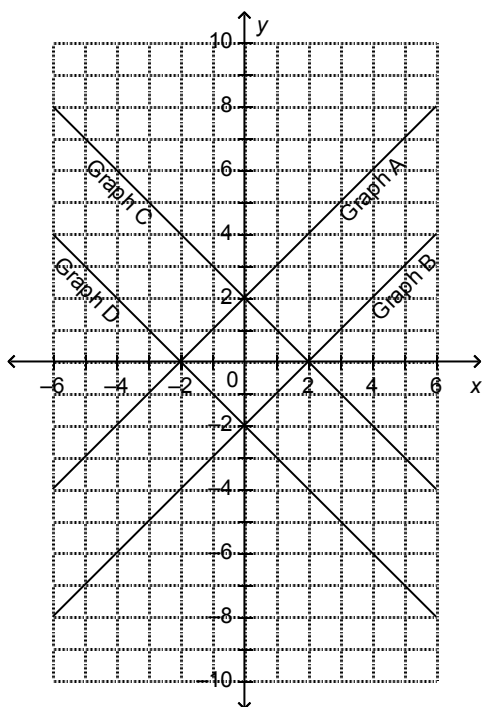
12. Match each equation with a graph on the grid below.

- i) $y = 2x - 1$
- ii) $y = 2x + 4$
- iii) $y = 2x - 5$



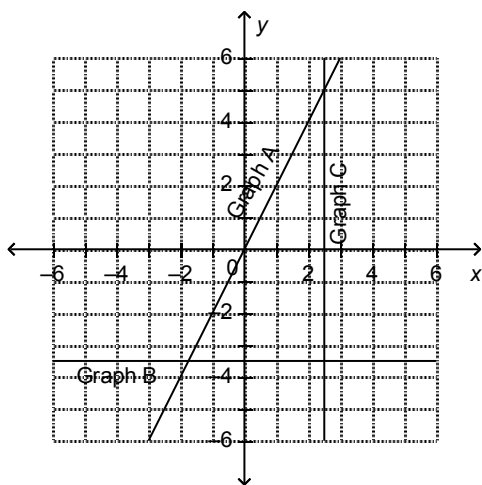
13. Match each equation with a graph on the grid below.

- i) $x + y = 2$
- ii) $x - y = 2$
- iii) $x + y = -2$
- iv) $x - y = -2$

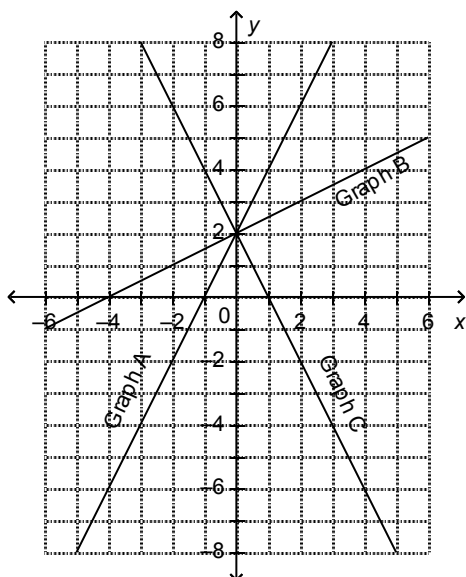


14. Match each equation with a graph on the grid below.

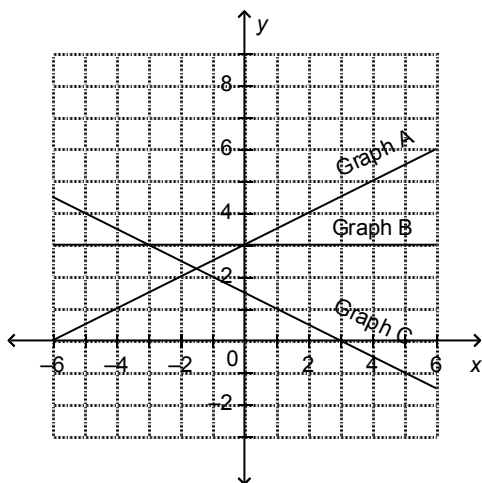
- i) $2x = 5$
- ii) $2y = -7$
- iii) $y = 2x$



15. Which graph on this grid has the equation $y = 2x + 2$?

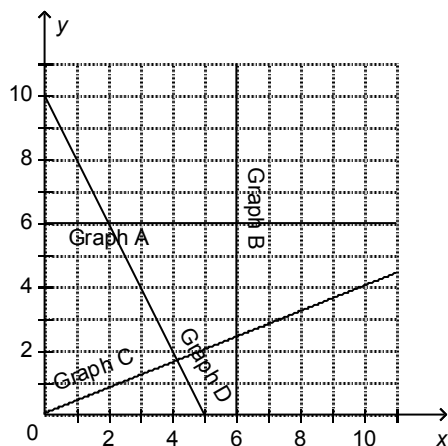


16. Which graph on this grid has the equation $x + 2y = 3$?



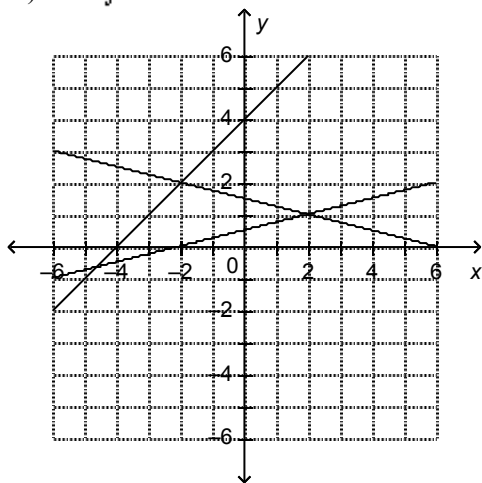
17. Match each equations with its graph below.

- i) $x - 6 = 0$
- ii) $y - 6 = 0$
- iii) $2x + y = 10$
- iv) $x - 2.5y = 0$



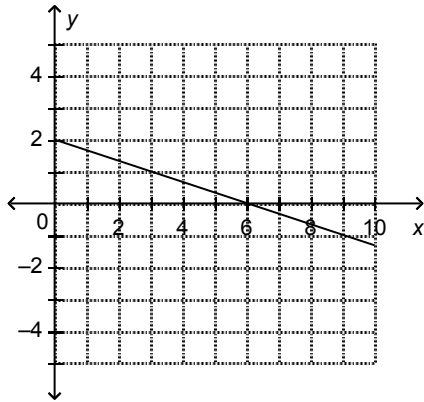
18. Which of these equations does **not** have its graph on the grid below?

- i) $y = x + 4$
- ii) $x + y = 4$
- iii) $x + 4y = 6$
- iv) $x - 4y = -2$



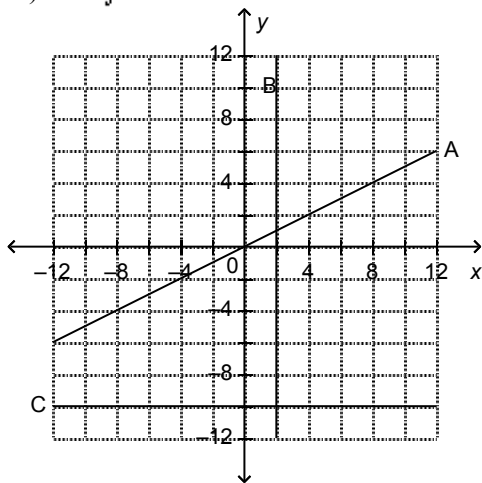
19. Which equation describes the graph?

- i) $x = 6 + 3y$
- ii) $3y = x + 6$
- iii) $x + 3y = 6$
- iv) $-3y = -x + 6$



20. Match each equation with a graph on the grid below.

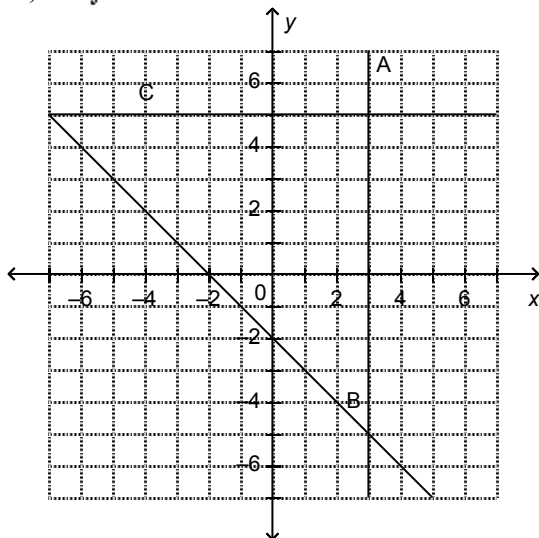
- i) $y = -10$
- ii) $x = 2$
- iii) $x - 2y = 0$



Problems

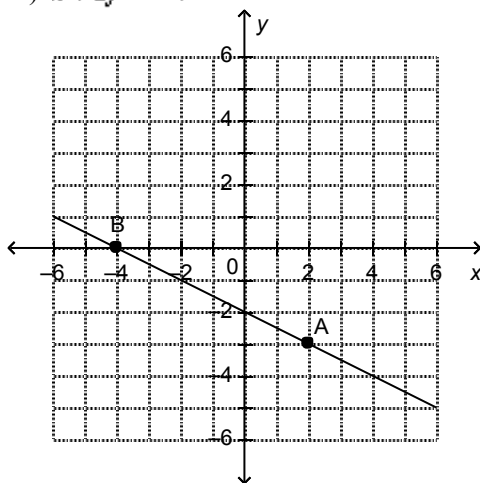
21. Match each equation with a graph on the grid below. Justify your answer.

- i) $x = 3$
- ii) $y = 5$
- iii) $x + y = -2$



22. Two points on the graph below have coordinates $A(2, -3)$ and $B(-4, 0)$. Which equation matches the graph? Show your work.

- i) $y = x + 3$
- ii) $x = 2 + y$
- iii) $x + 2y = -4$

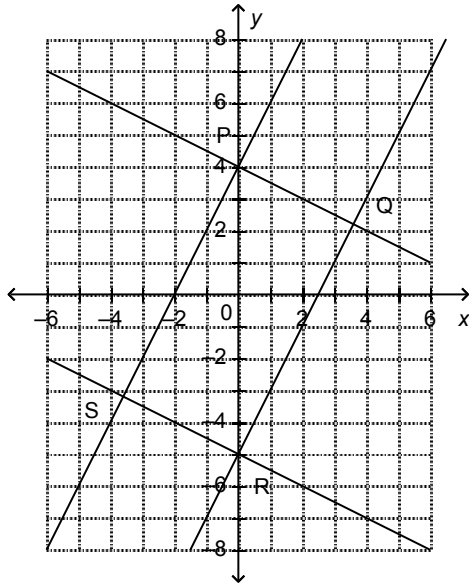


23. The lines on the grid below intersect to form rectangle PQRS. The equations of the lines are:

$$y = 2x + 4; y = 2x - 5; y = -\frac{1}{2}x + 4; \text{ and } y = -\frac{1}{2}x - 5$$

What is the equation of the line on which each side of the rectangle lies?

- a) PQ b) QR c) RS d) PS



24. The lines on the grid below intersect to form square ABCD. The equations of the lines are:

$$x = 2; x = 7; y = 3; \text{ and } y = 8$$

What is the equation of the line on which each side of the square lies?

- a) AB b) BC c) CD d) AD

