

3-1 Skills Practice

Graphing Linear Equations

Determine whether each equation is a linear equation. Write *yes* or *no*. If yes, write the equation in standard form.

1. $xy = 6$

2. $y = 2 - 3x$

3. $5x = y - 4$

4. $y = 2x + 5$

5. $y = -7 + 6x$

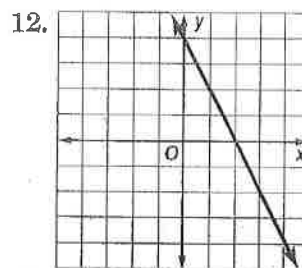
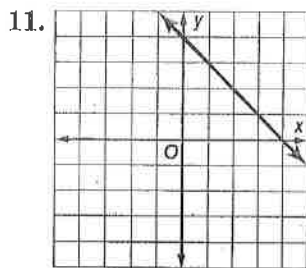
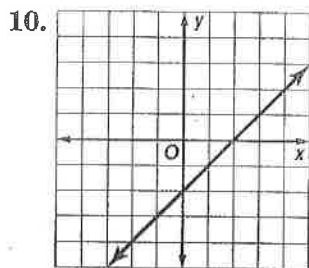
6. $y = 3x^2 + 1$

7. $y - 4 = 0$

8. $5x + 6y = 3x + 2$

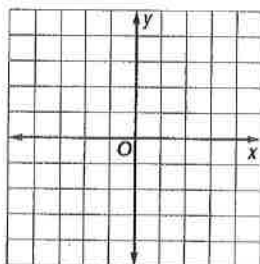
9. $\frac{1}{2}y = 1$

Find the x - and y -intercepts of each linear function.

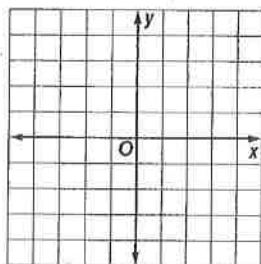


Graph each equation by making a table.

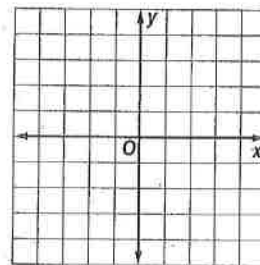
13. $y = 4 + x$



14. $y = 3x$

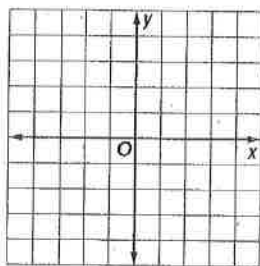


15. $y = x + 4$

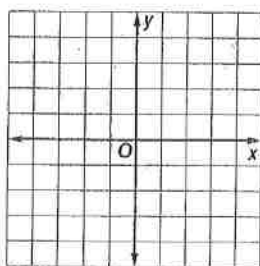


Graph each equation by using the x - and y -intercepts.

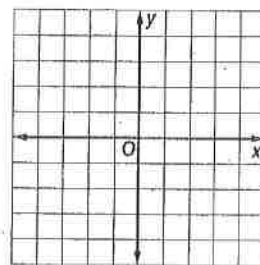
16. $x - y = 3$



17. $10x = -5y + 20$



18. $4x = 2y + 6$

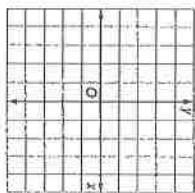


3-2 Skills Practice

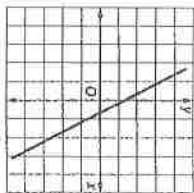
Solving Linear Equations by Graphing

Solve each equation.

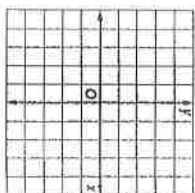
1. $2x - 5 = -3 + 2x$



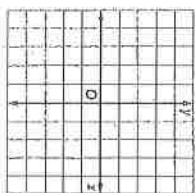
2. $-3x + 2 = 0$



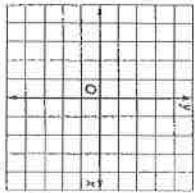
3. $3x + 2 = 3x - 1$



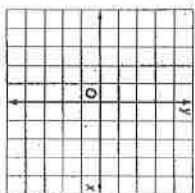
4. $4x - 1 = 4x + 2$



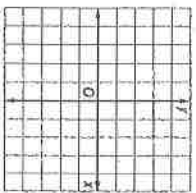
5. $4x - 1 = 0$



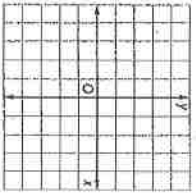
6. $0 = 5x + 3$



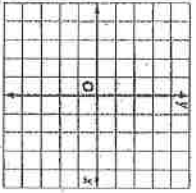
7. $0 = -2x + 4$



8. $-3x + 8 = 5 - 3x$



9. $-x + 1 = 0$



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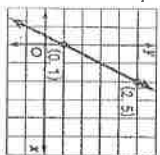
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3-5 Skills Practice

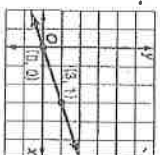
Rate of Change and Slope

Find the slope of the line that passes through each pair of points.

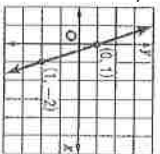
1.



2.



3.



4. (2, 5), (3, 6)

5. (6, 1), (-6, 1)

6. (4, 6), (4, 8)

8. (2, 5), (-3, -6)

9. (9, 8), (7, 8)

10. (-5, -8), (-8, 1)

12. (17, 18), (18, 17)

13. (-6, -4), (4, 1)

Find the value of r so the line that passes through each pair of points has the given slope.

20. $(r, 3), (5, 9), m = 2$

21. $(5, 9), (r, -3), m = -4$

22. $(r, 2), (6, 3), m = \frac{1}{2}$

23. $(r, 4), (7, 1), m = \frac{2}{5}$