SAT数学

张斯乐

1.Heart of Algebra

1.2 Relationship between two lines

1. The lines intersect in one point. In this case, the system has a unique solution.

两条线相交，唯一解，斜率不相等

1.Heart of Algebra

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2. The lines are parallel. In this case, the system has no solution.

两条线平行，没有解，斜率相等，常数项不相等

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3. The lines are identical. In this case, every point on the line is a solution, and so the system has infinitely many solutions.

两条线重合，无数个解，斜率相等且常数项相等

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4. Perpendicular lines.

两条线垂直，一个解，斜率相乘等于-1

1.2 Relationship between two lines

1. -2x + 3y = 6

In the xy-plane, the graph of which of the following equations is perpendicular to the graph of the preceding equation?
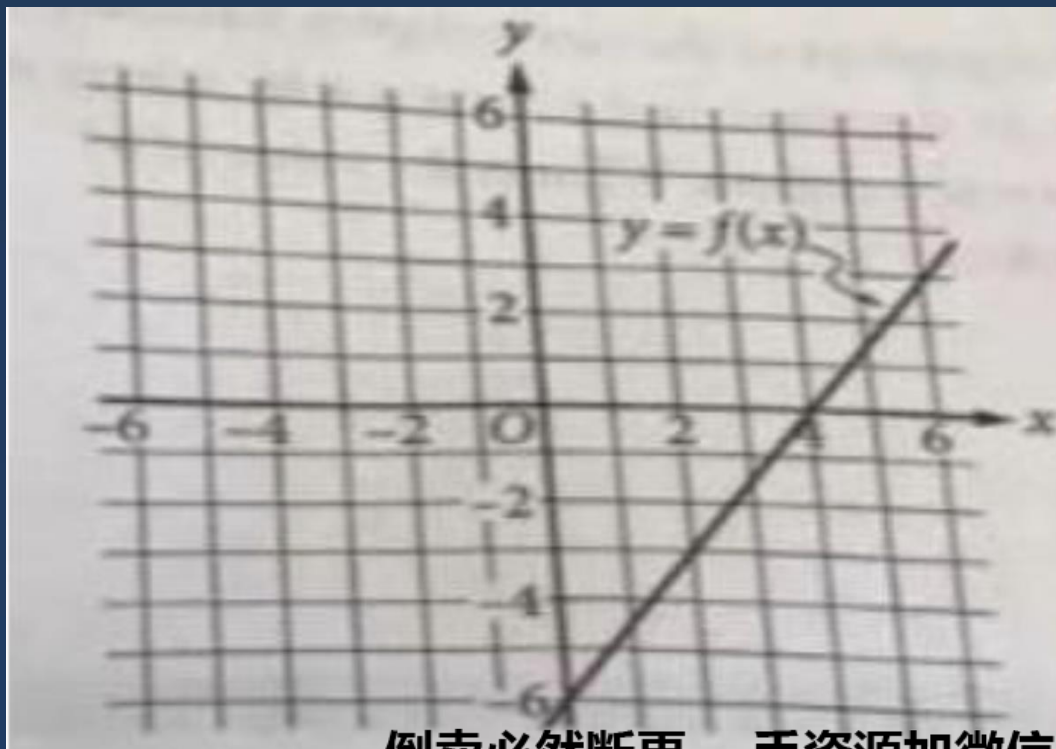
A.3x + 2y = 6
B.3x + 4y = 6
C.2x + 4y = 6
D.2x + 6y = 3

1.2 Relationship between two lines

2.

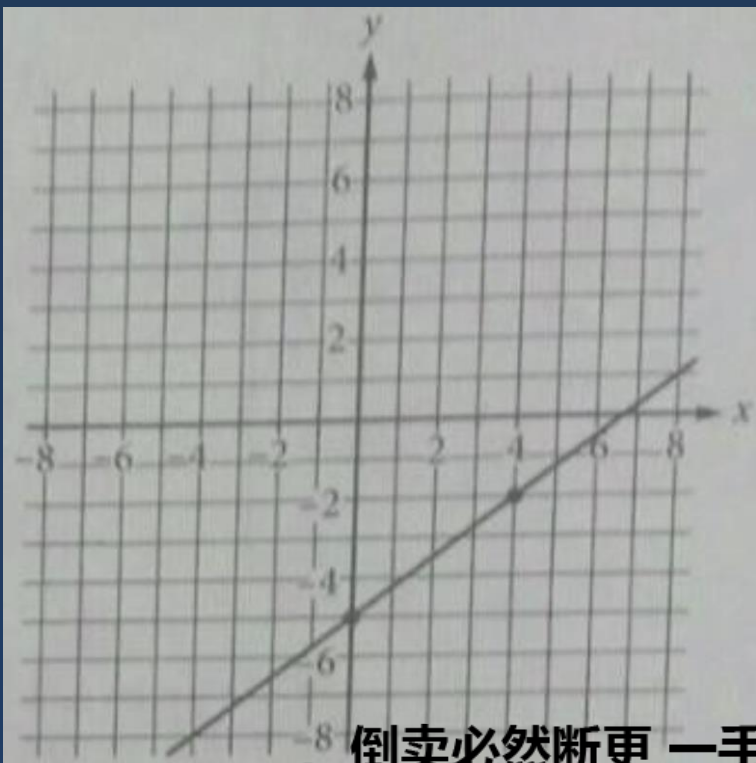# 1.2 Relationship between two lines

3.

1.2 Relationship between two lines

4. 2x + 3y = 5   4x + cy = 8

In the system of equations above, c is a constant. For what value of c will there be no solution (x, y) to the system of equations?

A.3
B.4
C.5
D.6

Thanks

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