



## Solving systems of linear equations



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1.2x - 1 = y3x - 1 = y

Consider the system of equations above. Which of the following statements about this system is true? A. There is only one (x, y) solution and y is

positive.

- B. There is only one (x, y) solution and y is negative.
- C. There are infinitely many (x, y) solutions.
- D. There are no (x, y) solutions.

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2.44(j+2k) = 1222k = -11j + 16Consider the system of equations above. How many solutions (j,k) does this system have? A. 0 B. Exactly 1 C. Exactly 2 D. Infinitely many

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3.5x-2y=6 10x-4y=cWhich of the following choices of c will result in a system of linear equations with no solutions? A. c=12 B. c can be any number other than -12

- C. c can be any number other than 12
- D. c can be any number

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4.-x = -6y - 7x-6y=kConsider the system of equations above. Which of the following choices of k will result in a system of equations with infinitely many solutions? A. Any number B. Any number except 7 C. 7 D. -7

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C. 2

5.  $\frac{6}{5}p + kq = \frac{4}{5}$   $q = \frac{3}{5}p - \frac{2}{5}$ Consider the system of equations above, where k is a constant. For which value of k is there no (p, q) solutions? A. -2 B. 0

D. None of the above

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6.a(p-q) =1 p = 2q-1 Consider the system of equations above, where a is a constant. For which value of a is (p, q)=(1, 1) a solution? A. 0

- A. U
- B. 1
- C. 2
- D. None of the above

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7.  $a\left(y-\frac{1}{3}\right)+\frac{x}{2}=0$  3y-x-1=0Consider the system of equations above, where a is a constant. For which value of a are there infinitely many (x, y) solutions? B.  $\frac{5}{6}$ C. 3 D. None of the above

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8.ay=2x+1 y=2x+2
Consider the system of equations above, where a is a constant. For what value of a are there no (x, y) solutions?

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