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MAT101RW - College Mathematics

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Decide whether the ordered pair is a solution of the given system

#5. x + y = 6

x - y = 4 (5,1)

Answer:

(5) (x + y = 6)

(1) (x - y = 4)

(5) (x) + 5 (y) = (5) . (6)

(1) (x) - (1).(-y)= (1).(4)

5x + 5y = 30

x + y = 4

= 6x + 6y = 34

6x + 6y = 34

$6y = \frac{34}{6x}$

$y = \frac{34}{6x-6}$

$y = \frac{17}{6x-3}$

I guess the ordered pair is not a solution of the given system.

2. x - y = 17

x + y = -1

(8).(x) - (8).(y) = (17).(8)

(-9)(x) - (-9).(y) = (-1).(-9)

8x - 8y = 136

-9x + (-9y) = 9

= - x - y = 145

$y = \frac{145}{x+1} x \frac{x+1}{x+1}$

y = 145 x + 1

I guess the ordered pair is not a solution of the given system.

7. 2x + y = 8

3x + 2y = 20 (8, -9)

Answer:

(8) (2x) - (8).(y) = (8).(8)

(-9)(3x) + (-9).(2y) = (20).(9)

16x - 8y = 64

-27x + -16y = -180

= -11x - 8y = 116

-11x - 24y = 116

y = 116 / 11x + 24