

Factor

$$x^2+4x+3$$

what add to 3 and multiply to 4?

3 and 1

$$(x+3)(x+1)$$

solving system by elimination

$$\{8x+y=-16$$

$$\{-3x+y=-5$$

$$-(8x+y=-16)$$

$$-3x+y=-5$$

$$x=-1$$

$$y=-8$$

solve by graphing

$$\{y=2x+7$$

$$\{y=x+6$$

$$x+6=2x+7$$

$$x+6-7=2x+7-7$$

$$x-1=2x$$

$$x-x-1=2x-x$$

$$x=-1$$

solving system by sub

$$\{x-y=11$$

$$\{2x+y=19$$

$$x+y-y=11-y$$

$$x=11-y$$

$$2(11-y)+y=19$$

$$22-2y+y=19$$

$$y=-1$$

$$x-(-1)=11$$

$$x=10$$

$$y=-1 \text{ and } x=10$$

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