

Solving equations Variables on both sides math 9 Name: _____


The following equations will all work out to integers, the you get to connect the dots

$5x + 6 = 2x + 15$

$7x - 4 = 20 + 3x$

$2x + 15 = 43 - 5x$

$3 + 4x = 9x + 13$


Work 

$2x - 10 = 44 + 8x$

$-7x - 2 = 24 - 9x$

$27 - 11x = x - 33$

$21x + 6 = 17x - 26$


Work 

$11x = 8x - 6$

$-x - 29 = 13 + 2x$

$-18 + 5x = -12x - 1$

$-9x - 21 = 35 - x$

Work 

$7x - 2 = -2x - 29$

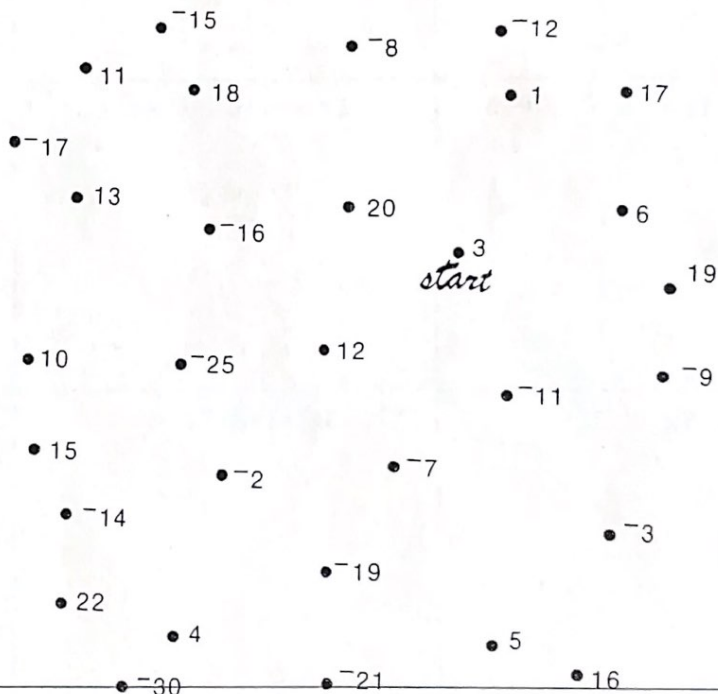
Connect the dots in the order you solved the equations. Connect last dot to first

$36 + 15x = 17x$

$-15 - 4x = 6 - 3x$

$12x - 9 = 8x - 37$

$-5x + 40 = 6x - 70$



Super _____ !!

2) Now the following equations need to be answered as fractions in simplest form

$$9x + 14 = 12x + 8$$

$$-17x + 5 = -4x + 12$$

$$20 - 3x = 17 - 5x$$

$$22 + 6x = 9x + 33$$

$$20x - 54 = 80 - 4x$$

$$18x + 65 = 13x - 23$$

$$24x + 12 - 3x = 2x + 66$$

$$45x + 81 = 5x + 27$$

$$9x - 6x + 12 = 17 - 5x$$

$$18 - 6x + 14 = 19 + 4x + 26$$

$$64 - 2x + 8 = 15x + 9$$

$$-86 + 7x + 56 = 24 - 3x$$

$$12 + 7x = 5x - 22$$

$$17x - 34 = 19 + 7x$$

$$9x - 12x + 14 = 3 - 5x$$

Extend your skills and strive for excellence!up for a challenge??

$$\text{Solve for } x: 13x + 12 - 17x + 3 - 14x + 19x - 54 + 60 = -6x + 13 - 35x - 98x + 120 - 7x + 14 - 134$$