

Statement	Reason
1) $4(5x-9) = -2(x+7)$	Given
$20x-36 = -2x-14$	Distributive Property
$22x = 22$	Addition POE
$x = 1$	Division POE
	QED

Statement	Reason
2) $3(4x+7) = 5(3x+3)$	Given
$12x+21 = 15x+15$	Distributive Property
$6 = 3x$	Subtraction POE
$2 = x$	Division POE
	QED

Statement	Reason
3) $9x+21 = 3(-7+9y)$	Given
$9x+21 = -21+27y$	Distributive
$9x+42 = 27y$	Addition POE
$\frac{9x+42}{27} = y$	Division POE
$\frac{3x+14}{9} = y$	Simplify
	QED

Statement	Reason
4) $9x + 21 = 3(-7 + 9y)$	Given
$9x + 21 = -21 + 27y$	Distribute
$9x + 42 = 27y$	Addition POE
$\frac{9x + 42}{27} = y$	Division POE
$\frac{3x + 14}{9} = y$	Simplify

Statement	Reason
5) $P = 2l + 2w$	Given
$P - 2w = 2l$	Subtraction POE
$\frac{P - 2w}{2} = l$	Division POE

Statement	Reason
6) $S = (n - 2)180$	Given
$S = 180n - 360$	Distributive Property
$S + 360 = 180n$	Addition POE
$\frac{S + 360}{180} = n$	Division POE

7 Division POE

8 Symmetric

9 ~~Reflexive~~ Reflexive

10 Transitive Property

11) Symmetric

12) A, B, C

13 A, B, C, F