

Worksheet Exercise 4.2.C.

Name _____

Symbolizing Complex Sentences

Class _____ Date _____

Part B. Translate the following symbolic sentences into regular English sentences using the listed meanings for the predicate letters.

T = triangle, F = figure, C = circle, E = three-sided,
 S = square, G = green, U = four-sided, B = blue,
 M = matter, O = solid, t = Sears Tower, c = Chicago

1. $(\forall x)(Tx \supset Fx)$ _____
2. $\sim(\forall x)(Fx \supset Tx)$ _____
3. $(\forall x)(Cx \supset \sim Ex)$ _____
4. $(\exists x)\sim(Sx \ \& \ Gx)$ _____
5. $(\exists x)(\sim Sx \ \& \ \sim Gx)$ _____
6. $(\exists x)[(Gx \ \& \ Sx) \ \& \ Ux]$ _____
7. $(\forall x)(Gx \ \& \ Sx \ \& \ Ux)$ _____
8. $(\forall x)[Tx \supset (Ex \ \& \ Fx)]$ _____
9. $(\forall x)[Tx \supset \sim(Ux \ \& \ Fx)]$ _____
10. $(\forall x)[Tx \supset (\sim Ux \ \& \ Fx)]$ _____
11. $\sim(\exists x)[(Ex \ \& \ Fx) \ \& \ Cx]$ _____
12. $(\forall x)Mx \vee (\forall x)\sim Mx$ _____
13. $(\forall x)(Ox \ \& \ Fx) \ \& \ (\exists x)\sim Mx$ _____
14. $Bt \supset (\exists x)[(Ox \ \& \ Fx) \ \& \ Bx]$ _____
15. $(\forall x)(Gx \ \& \ Sx) \supset Sc$ _____
16. $(\exists x)(Sx \ \& \ \sim Fx) \supset (\forall x)\sim Fx$ _____