

Name: _____ Quiz 1

1) Translate the sentence below into logical symbolism

“Either Alice is going to Orlando, or she will be sad whenever she sees a Disney film”

2) Translate the sentence below into mathematical symbolism

“Every real number is equal to 5”

3) Below is a partial proof of the statement below. Finish the proof by filling in the blanks.

“If $x > 2$ and $3y + 2 = 8$, then $3x + y^2 > 10$ ”

Line	Statement	Reasoning
(1)	$x > 2$	_____
(2)	$3y + 2 = 8$	_____
(3)	$y = 2$	Algebra on line 2 (Solve the equation)
(4)	_____	Algebra on line 3 (_____)
(5)	_____	Algebra on line 1 (_____)
(6)	$3x + y^2 > 10$	Combine lines 4 and 5 by adding the left sides together and also adding the right sides together