

MAT157 Problem Set 9

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1.

$$(\forall x, y. \text{ NOT } (t(x, q, y))) \text{ AND } (\exists x. w(x, p))$$

2.

$$\forall x, y. (\exists z. t(x, z, y) \text{ IMPLIES } w(y, x))$$

3.

$$\exists x \forall y. (\exists z. t(y, x, z) \text{ IMPLIES } w(x, y))$$