

MATH 3430-02 QUIZ 5

Name: _____

Suppose that $y_1(t) \neq 0$ satisfies

$$(*) \quad y'' + p(t)y' + q(t)y = 0.$$

Derive the formula that $v(t)$ satisfies in order for $v(t)y_1(t)$ to be a solution of $(*)$.