

# Math 1513 - College Algebra

## Quiz #5 - 2011.09.01

### Solutions

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1. Describe the standard form for a complex number, and then give an example.

The standard form for a complex number  $z$  is  $z = a + bi$ , where  $a$  and  $b$  are real numbers and  $i = \sqrt{-1}$ . As an example, the complex number  $2 - 3i$  is in standard form.

2. Solve the equation  $s = \frac{1}{2}gt^2 + vt$  for the variable  $g$ .

First, we subtract  $vt$  from both sides to get  $s - vt = \frac{1}{2}gt^2$ . Next, we multiply both sides by  $\frac{2}{t^2}$  to get  $g = \frac{2(s-vt)}{t^2}$ .