

This is a test by Matthew White.

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Easy problems! Go!

**Question 1** Try to add these numbers: 3, 5

**Hint:**  $3 + 5$

**Question 2** Factor the following completely.

$$x^2 + 2x + 1$$

**Hint:**  $x^2 + 2x + 1 = (x + 1)(x + 1) = (x + 1)^2$

**Multiple Choice:**

(a)  $x^2 + 2x + 1$

(b)  $(x + 1)^2$  ✓

(c)  $(x - 1)(x + 1)$

**Question 3** **Hint:**

$$\begin{array}{rcl} f(x) & = & 1/2x \\ g(x) & = & x^2 \\ f(g(x)) & = & ?? \end{array}$$

What is one half of  $x^2$ ?

**Question 4** Play around with this: `iframe scrolling="no" src="https://tube.geogebra.org/material/iframe/id/width="734px" height="398px" style="border:0px;" i /iframe i`  $1 + 1 =$