Your name:

## Question 1 (Arithmetic skill-signed number) *Calculate.*

- $(-5) - 2 =$
- $8 + (-6) =$

- $4 - 9 =$
- $(-8) \cdot (-2) =$

- $(-9) - (-2) =$
- $4 - (-8) =$

- $6 - (-3) =$
- $12 \div (-2) =$

- $(-7) + (-3) =$
- $(-2)(-1) =$

## Question 2 (Arithmetic skill-fraction) *Simplify.*

- $\frac{2}{3} + \frac{1}{6} =$
- $\left(\frac{2}{3}\right) \cdot \left(\frac{1}{6}\right) =$

- $\frac{1}{4} - \frac{1}{6} =$
- $\left(-\frac{4}{5}\right) \div \left(-\frac{2}{3}\right) =$

## Question 3 (Agebra skill-$+, -, \times, \div$) *Simplify.*

- $x + x =$
- $(x + 1)(x - 2) =$

- $(2x^2 - 4x + 1) - (x^2 - 2x + 1) =$
- $\frac{4x^2 + 2x}{2x} =$

**Question 4 (Agebra skill-factoring)** *Factor completely.*

- $4x^2 - 9 =$

- $x^3 - 2x^2 - 2x + 4$

- $x^2 - 2x - 8 =$

- $2x^2 + x - 6$

**Question 5 (Equation)** *Solve it.*

- $2x + 3 = 4$

- $x^2 - 10x = 24$

- *Solve it for y.* $x + 2y = 2.$

- $x^3 - 4x^2 - 7x + 10 = 0.$
  *Use the synthetic division.*