Classwork – Blockbuster Factoring 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. If the solutions for a quadratic function are $x=-2$ and $x=2. $ Then what is the axis of symmetry?

 A. $x=0$

 B. $x=-1$

 C. $\left(0, 2\right)$

 D. There is no axis of symmetry.

**Simplify the following.**

2. $2x^{2}-11x+5$ 3. $3x^{2}+4x-4$

**Factor and find the roots.**

4. $x^{2}-4=0$ 5. $x^{2}-15x+36=0$

6. **Simplify:** $\frac{1}{2}x^{2}+x-12$ 7. **Factor:** $9x^{2}-6x+1$

A. $x^{2}+x-24$

 B. $(x+3)(x-2)$

 C. $(x-3)(x+2)$

 D. $x^{2}+3x-2x-6$

**Factor the following.**

8. $x^{2}-4x-32$9. $2x^{2}+15x+7$

**Find the roots for each.**

10. $x^{2}-4x-12$ 11. $x^{2}-14x+49$