BAHA Algebra 2 Placement Test

Name _____

Due Date: Before August 1, 2022 _____

Information: This placement test is an indicator to give you information on how prepared you are for Algebra 2. The results will be returned as one of three options: well prepared, prepared, or needs support. You may use a calculator.
Student must show work on every problem to get credit.
Please scan completed tests and send to Mrs. Harris at monaharris@me.com. Use the subject "BAHA algebra 2 placement test 2022- <name>".

1) Solve.

$$-11(-12 - 3p) = -6(p - 9)$$

2) $$\frac{5}{3a + 11} = \frac{10}{a - 1}$$

3) Solve each equation with the quadratic formula.

$$2x^2 - 7x - 77 = -5$$

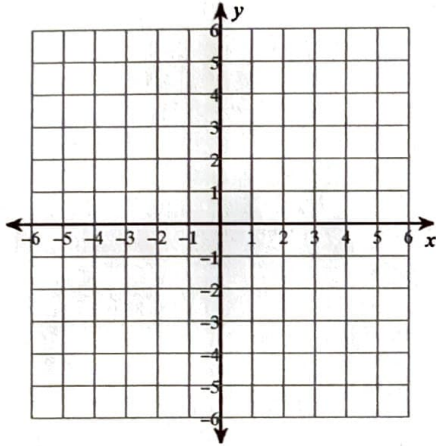4) Solve. Remember to check for extraneous solutions.

$$\frac{1}{3k} = \frac{1}{k} - \frac{1}{3}$$

5) Simplify. Your answer should contain only positive exponents.

$$x^{-2} \cdot \left(x^{-4}y^{-1}\right)^{-3} \cdot x^3 y^{-2}$$

Sketch the graph of the line.

6) $x - y = -5$

Simplify.

7) $(7k - 3)(k - 7)$

8) $2\sqrt{28x^3yz^4}$

9) $\sqrt{6}\left(\sqrt{6} + \sqrt{2}\right)$

Solve the system. Write solution as an ordered pair.

10) $4x + y = -13$
$\quad -2x - 7y = -13$