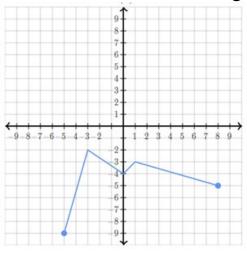
$$3(x+4) + 4(x-5) = 8 + 3x + 6x - 4$$

2. State the domain and range.



- 3. Write a linear equation in both slope-intercept and standard form for a line that passes through the points (-4, 3) and (-2, 4).
- 4. Solve the system of equations using any method.

$$9x - 6y = -24$$

$$18x - 5y = 1$$

5. Simplify.

$$\frac{2a^{2}}{(a^{3})^{-1} \cdot (2a^{3}b^{-2})^{0}}$$

6. Factor as completely as possible.

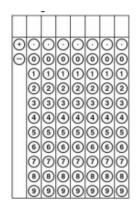
$$9x^2 + 30x + 16$$

- 7. Write a verbal description for what the graph of the equation  $y = 2(x 5)^2 8$  looks like compared to the quadratic parent function. Include axis of symmetry, vertex, direction of opening, and how it is translated.
- 8. Find the roots using any method.

$$4x^2 - 7 = 57$$

Use the griddables to answer #9 and #10.

9. What is the negative root of the given equation  $3x^2 + 6x - 72 = 0$ ?



10. The 8<sup>th</sup> graders at Madisonville Junior High and College Station took a trip to the museum. Madisonville rented and filled 6 vans and 1 bus for a total of 126 students. College Station rented 3 vans and 13 buses with 438 students. Each van and bus had the same number of students. How many students can each bus carry?

