Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_

Exponential Functions Learning Targets Formative Scores: #1:\_\_\_\_\_ #2:\_\_\_\_\_ #3:\_\_\_\_\_ #4:\_\_\_\_\_ #5:\_\_\_\_\_ #6:\_\_\_\_\_

**HW #7**

**Learning Target #1:** “I can apply the rules of exponents.” N-RN.1, N-RN.2

Simplify the exponential expressions. Make sure that you rewrite the expressions to not include negative exponents.

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| --- | --- | --- | --- |
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1. Explain the meaning of .
2. Explain the meaning of

Review Inequalities:

**Learning Target #2:** “I can create, solve, and graph inequalities in one variable.” A-CED.1, A-REI.3

1. Write and solve an inequality that is represented by this situation. Then graph the solution set.

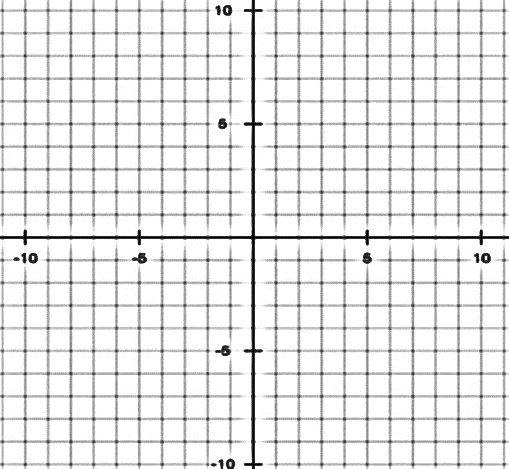
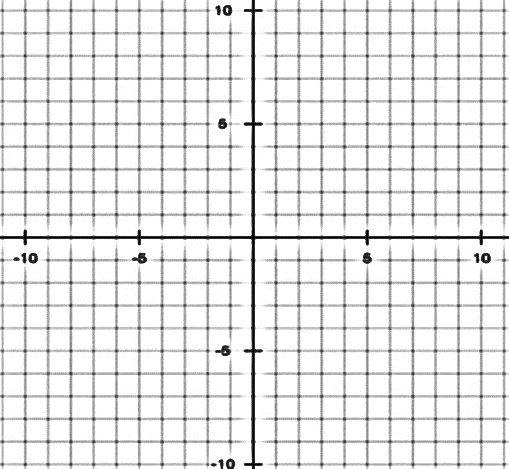
In 7 years, Ellie will be able to vote. What is the possible range for how old Ellie is?



Is 15 a viable solution for this context? Why or why not?

**Learning Target #3:** “I can create, solve, and graph inequalities in two variables.” A-REI.12

1. Graph the linear inequality.



**Learning Target #4:** “I can graph the solution set to a system of linear inequalities in two variables.” A-REI.12

1. Write a system of linear inequalities to model the situation. Then graph the solution region.

You can work at most 20 hours next week. You need to earn at least $90 to cover you weekly expenses. Your dog- walking job pays $7.50 per hour and your job as a car wash attendant pays $6 per hour. Let x = the number of hours you walk the dogs and let y = the number of hours you wash cars.



Choose one viable solution and explain why it is viable.

Choose one non-viable solution and explain why it is non-viable.