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| Sec1 | HW 3-4 Percent increase Decrease | |

Write an expression to model each situation, then find the solution.

1. The retail price of a book is \$29.99. Amazon is selling it for a 17% discount.

2. Dinner cost \$38.50. You decide to leave a 15% tip.

3. You bought a Nintendo Switch for \$306.75. You sold it for a 20% loss.

4. You design a sign for your yard sale. It is 15" tall. You decide to increase it by 40%.

5. Best buy is selling a video game for 20% off \$55. You also have a 10% discount card. Would you rather they take 30% off the original price, or should they first take 20% off, then 10% off that price? Explain your choice.

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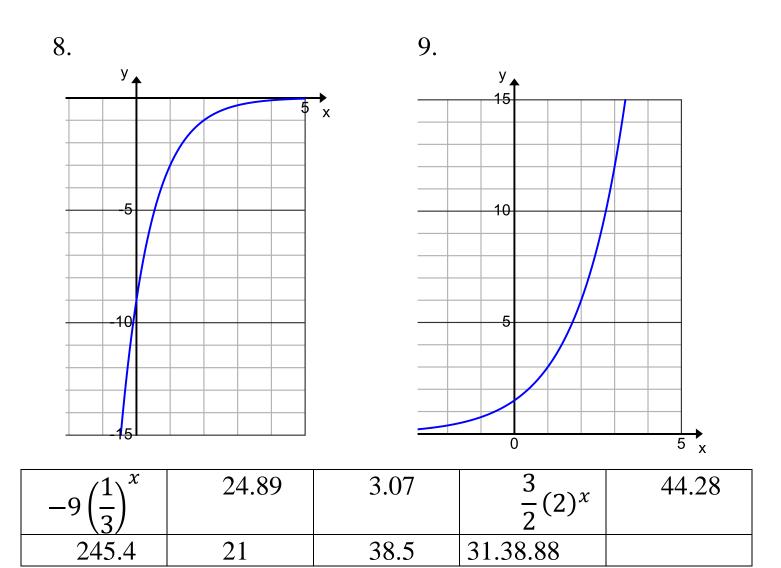
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Write an explicit equation to represent each pattern below. Write your equation in two equivalent forms.

6. The water in a pool is slowly evaporating. It starts with 300 gallons. After a week there is 120 gallons, after weeks two and three there are 48 and 19.2 gallons.

b. How much will there be after 5 weeks?

- 7. A population of mosquitos triple every 4 days. They started with 17 mosquitos.
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