**Choosing a Gym**

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1. There are two gyms in Groton, CT advertising promotional plans. The membership plans are as follows:

**Gym A**: $120 one time membership fee plus $10 per month

**Gym B**: No membership fee and $20 per month

1. Mark’s father is stationed at the Naval Submarine Base for the next nine months and his family lives in Groton. Which gym should Mark join during their nine months in Groton? Why?
2. José is planning to attend the University of Connecticut at Avery Point to earn his Bachelor’s Degree in Coastal Studies. José will live in off-campus housing in Groton and he is trying to decide which of the two gyms to join during his four years of college. Which gym should José join? Why?
3. For how many months would it be best to join Gym A? When would it be best to join Gym B? Explain.
4. When would it not matter which gym a person joined? Explain how you made your decision.
5. Susan is trying to choose between two gyms. Susan loves Zumba (the latest cardio/aerobic craze) and must decide between two gyms that both offer Zumba. The gyms in her neighborhood offer the following membership plans:

**Phoenix Gym**: $40 one time membership fee, $10 one time towel fee, and $25 per month

**Rocker Spa**: $50 one time membership fee, $15 per month for general membership, and an additional $10 per month for Zumba classes

1. If you had to choose a gym without doing any math, which would you choose? Why?
2. Write the equations for both gyms. Think about the meaning of each slope in context of the problem.

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| Phoenix Gym | Rocker Spa |

1. Solve the system by graphing.



1. What is the solution?
2. Which Gym should Susan join? Why?
3. Natasha is also trying to decide between two gyms, but her passion is kickboxing. Should she join Ellie’s Gym, a typical gym with kickboxing classes, or The Kick Box, a kickboxing gym, if she only wants to attend kickboxing classes and wants the best deal?

**Ellie’s Gym**: $60 one time membership fee and $10 per month for general membership and an additional $10 per month for kickboxing classes.

 **The Kick Box**: $75 one time membership fee and $20 per month for kickboxing classes.

1. If you had to choose a gym without doing any math, which would you choose? Why? (no wrong answers)
2. Write the equations for both gyms. Think about the meaning of each slope in context of the problem.

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| Ellie’s Gym | The Kick Box |

1. Solve the system by graphing.



1. What is the solution?
2. Which gym should Natasha join? Why?