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Write a system of equations to represent each problem situation. Solve the system of equations using the method listed.

1. Jason and Jerry are competing at a weightlifting competition. They are both lifting barbells containing 200 pounds of plates (weights). Jason's barbell has 4 large and 10 small plates on it. Jerry's barbell has 6 large and 5 small plates on it. How much does each large plate and each small plate weigh? (Use Elimination)
2. Rachel needs to print some of her digital photos. She is trying to choose between Lightning Fast Foto and Snappy Shots. Lightning Fast Foto charges a base fee of $\$ 5$ plus an additional $\$ 0.20$ per photo. Snappy Shots charges a base fee of $\$ 7$ plus an additional $\$ 0.10$ per photo. Determine the number of photos for which both stores will charge the same amount. Explain which store Rachel should choose depending on the number of photos she needs to print. (Use Graphing)

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3. Raja is trying to decide which ice cream shop is the better buy. Cold \& Creamy Sundaes charges $\$ 2.50$ per sundae plus an additional $\$ 0.25$ for each topping. Colder \& Creamier Sundaes charges $\$ 1.50$ per sundae plus an additional $\$ 0.50$ for each topping. Determine the number of toppings for which both vendors charge the same amount. Explain which vendor is the better buy depending on the number of toppings Raja chooses. (Use substitution)

## More Elimination Practice

4. $3 x+6 y=21$
5. $x+8 y=7$

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\begin{aligned}
& 7 x-4 y=-1 \\
& -14 x+8 y=2
\end{aligned}
$$

$$
\text { 7. } \begin{aligned}
& 10 x-6 y=30 \\
& 9 x-3 y=3
\end{aligned}
$$

9. $12 x-4 y=-14$
$6 x-2 y=-12$
