Name _____ Date _____

Solve the system of linear equations.

1. $y = 2x - 5$

$y = 2x + 7$

2. $3x + 4y = -10$

$y = -\dfrac{3}{4}x - \dfrac{5}{2}$

3. $y = x + 6$

$2x + y = 9$

4. $x - y = 8$

$2y = 2x - 16$

5. You start reading a book for your literature class two days before your friend. You both read 10 pages per night. A system of linear equations that represents this situation is $y = 10x + 20$ and $y = 10x$. Will your friend finish the book before you? Explain.

6. You and a friend buy music from different online stores. The system of linear equations represents the total amount spent on x songs and y albums. Both of you buy the same number of albums. Compare the number of songs each of you buy.

$$0.95x + 10y = 39.5$$
$$1.9x + 20y = 79$$