Bellwork: Algebra 1

1. WELCOME BACK! :)
2. Write down your homework for the night.
3. All you need is a pencil and a calculator.
4. Answer the following question on your WEDNESDAY Bellwork:

Solve the following:

$$5x + 3(2x - 8) = 20$$

$5x+6x-24=20$

$11x-24=20$

$+24 \quad +24$

$\frac{11x}{11}=\frac{44}{11}$

$x=4$

When would it not be beneficial to graph systems to find their solution?

1) $4x + 34 - x^2$

$x = 5$

2) $4(x - 3) + 8x$

$x = -8$

3) $(x + 5)^2 - 12x$
$x = 7$

4) $-24x + 8x - 13$
$x = -2$

5) $2x + 8y = 20$
$y = 2$

6) $x = 5$
$2x + y = 10$

7) $4x + 14y = 4$

$y = -2$

8) $-5x + 6y = 67$

$x = 7$

9) $2x + 6y - 12$
$y = 8x$

10) $25 - 2y + 7x$
$x = 3y$

11) $4x + 9y - 1$
$x = y + 5$

12) $-3x + 8y + 4$
$y = 2x - 1$

13) $5x - 2y = 3$

$y = 2x$

$5x - 2(2x) = 3$

$5x - 4x = 3$

$x = 3$

$y = 6$

$(3, 6)$

$15 - 2y = 3$

$-15 \quad -15$

$-2y = -12$

$y = 6$

14) $2y + x = -15$

$x = 3y$

$2y + 3y = -15$

$5y = -15$

$y = -3$

$x = -9$

$(-9, -3)$

15) $4x + 7y = 19$
$y = x + 9$

16) $y = 6x + 11$
$2y - 4x = 14$

17) $2x - 8y = 6$
$y = -7 - x$

18) $x = 2y - 1$
$3x - 2y = -3$