

**Unit 2: All-In-One
Principles**

Name: _____

Pd: _____ Date: _____

SHOW ALL WORK TO RECEIVE FULL CREDIT!

For #'s 1 – 16, Solve and Check.

1.) $3y = -9$ **Check:**

2.) $m - 5 = 8$ **Check:**

3.) $\frac{x}{3} + 2 = 5$ **Check:**

4.) $4m - 6 = 22$ **Check:**

5.) $23 = 7 - 8p$ **Check:**

6.) $\frac{h}{4} - 3 = -6$ **Check:**

7.) $4m^2 = 100$ **Check:**

8.) $2 = 5(b + 9) - 3$ **Check:**

9.) $\frac{2h+3}{5} = 5$

Check:

10.) $-3(p+6)^2 = -12$ **Check:**

11.) $6(3a-8) + 4 = 82$ **Check:**

12.) $6x + 3 = 9x - 15$ **Check:**

13.) $4p - 9 = 8p + 3$ **Check:**

14.) $15m + 10 = 20m - 10$ **Check:**

15.) $-2(3b - 1) + 4b = 4b - 4$

Check:

16.) $5(2x - 8) = 3(x + 3)$

Check:

For #'s 17 - 20, Solve for y.

17.) $4y - 7 = 8x + 9$

18.) $6 - 3y = 12x + 24$

19.) $3x - 15 = 5y + 5$

20.) $x + 8 = \frac{y}{5} + 1$

Write and solve an equation for each situation.

- 21.) You start 300 miles away from your home. You are driving towards home at a speed of 60 miles per hour. How long will it take you to get home?