## 4.5 - Practice Solving Different Types of Equations

| $x^{2}+20=45$ | $52=3 x-8$ | $x^{3}=125$ |
| :--- | :--- | :--- |
| Match the terms below with the equations that they describe above.  <br> First-Degree Equation Second-Degree Equation | Third-Degree Equations |  |

Practice - a) Label each equation as first, second, or third degree. There will be one of each type in each row. b) Solve each equation and check.

| LP\#1 <br> $x+18=22$ <br> 5 | $x^{3}=216$ | $y^{2}=196$ |
| :--- | :--- | :--- |
|  |  |  |
| LP\#2 |  |  |
| $m^{3}=8$ |  |  |


| $\mathbf{L P \# 3}$ |  |  |
| :--- | :--- | :--- |
| $w^{2}=81$ |  |  |
|  |  | $9(y+3)=9$ |
|  |  |  |

Review a) Label each equation as first, second, or third degree. There will be one of each type in each row. b) Solve each equation and check.

| R\#1 <br> $x^{2}=9$ | $y^{3}=64$ | $y+27=22$ |
| :--- | :--- | :--- |
|  |  |  |
| R\#2 <br> $6(x+1)=7 x+2$ | $n^{2}+12=16$ | $x^{3}=27$ |
|  |  |  |

## Homework

1) $x-8=3$
2) $d^{3}=216$
3) $5 m+19=9$
4) $x^{2}=49$
5) $b^{3}=27$
6) $8 m+6=9 m+2$
7) $x^{2}=4$
8) $-15=3 x-30$
9) $y^{2}=144$
10) $2(3 x-10)=4$
11) $k^{3}=1$
12) $5 w+18=9 w-8$
13) $6 y=-54$
14) $18=-3(x-2)$
15) $x^{2}=64$
16) $x^{3}=8$
17) $10 w-15=7 w$
18) $x^{2}=225$
19) $p^{3}-20=7$
20) $6 x+20=-22$
21) $h^{2}=400$
22) $y+1=2 y+10$
23) $x^{3}+10=18$
24) $3(x+4)=9 x$
