4.5 – Practice Solving Different Types of Equations

$x^2 + 20 = 45$	52 = 3x - 8	$x^3 = 125$		
Match the terms below with the equations that they describe above.				
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.

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LP#1		$y^2 = 196$	
x + 18 = 22	$x^3 = 216$		
L.P#2	$r^2 - 25$	6r - 42	
LP#2 $m^3 = 8$	$x^2 = 25$	6x = 42	
LP#2 m3=8	$x^2 = 25$	6x = 42	
LP#2 $m^3 = 8$	$x^2 = 25$	6x = 42	
LP#2 m3=8	$x^2 = 25$	6x = 42	
LP#2 $m^3 = 8$	$x^2 = 25$	6x = 42	
LP#2 <i>m</i> ³ = 8	$x^2 = 25$	6 <i>x</i> = 42	
LP#2 $m^3 = 8$	$x^2 = 25$	6 <i>x</i> = 42	
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LP#2 $m^{3}= 8$	$x^2 = 25$	6 <i>x</i> = 42	
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LP#2 $m^3 = 8$	$x^2 = 25$	6 <i>x</i> = 42	
LP#2 $m^3 = 8$	x ² = 25	6 <i>x</i> = 42	
LP#2 $m^3 = 8$	x ² = 25	6 <i>x</i> = 42	

I D#2	0(-, +2) = 0	<i>J</i> ³ 1000
LP#3 $w^2 = 81$	9(y+3) = 9	$d^3 = 1000$
W = 81		
LP#4	x + 18 = 3x - 6	$x^{3} - 7 = 20$
$x^2 + 1 = 10$		
LP#5	$w^3 + 3 = 128$	$x^2 - 10 = 6$
2y - 4 = 7y - 19	W 1 5 - 120	л <u>10 — 0</u>

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R#1 $x^2 = 9$	$y^3 = 64$	y +27 = 22
R#2 6(x+1) = 7x + 2	$n^2 + 12 = 16$	$x^3 = 27$
R#3 $x^{3}-5 = 3$	3y + 18 = 6y + 24	$x^2 = 121$

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.

Homework

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