**Name Job 2 Solving Equations**



**Part 1: Textbook - Required:**

Textbook Lesson 1-2: 10, 12, 16, 18, 20, 22, 24, 26, 28, 32, 36, 41

**Part 2: Algebra Regents Questions – Required:**

1. The expression $3\left(x^{2}-1\right)-(x^{2}-7x+10)$ is equivalent to
	1. $2x^{2}-7x+7$
	2. $2x^{2}+7x-13$
	3. $2x^{2}-7x+9$
	4. $2x^{2}+7x-11$
2. Determine if the product of $3\sqrt{2}$ and $8\sqrt{18}$ is rational or irrational. Explain your answer.
3. A part of Jennifer’s work to solve the equation $2\left(6x^{2}-3\right)=11x^{2}-x$ is shown below.

Given: $2\left(6x^{2}-3\right)=11x^{2}-x$

Step 1: $12x^{2}-6=11x^{2}-x$

 Which property justifies her first step?

1. Identify property of multiplication
2. Multiplication property of equality
3. Commutative property of multiplication
4. Distributive property of multiplication over subtraction
5. Solve the equation below for $y$



**Part 3 Advanced – Optional: Bonus 8, 30, 31**