**Section 2.1**

 #1, 2, 3, 5, 7, 14

1. Simplify by collecting like terms.

|  |  |
| --- | --- |
| a) $\left(3x^{2}-7x+12\right)+(-5x^{2}+4x-2)$ | b) $\left(4x^{2}-17\right)+(9x^{2}-7x-4)$ |
| c) $\left(11x^{2}-8x+13\right)-(8x^{2}-3x+5)$ | d) $\left(5x^{2}+7x-11\right)-(-3x^{2}+7x-17)$ |

2. Expand and simplify.

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| --- | --- |
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|  |  |

3. Expand and simplify.

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|  |  |
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5. Expand and simplify.

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|  |  |
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7. Expand and simplify.

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| --- | --- |
|  |  |

14. Expand and simplify.

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**Section 2.2**

 #3, 6, 15, 19 (tricky, try it out)

3. Factor, using the greatest common factor.

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6. Factor.

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15. Factor.

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**Section 2.3**

 #3, 6, 9, (14 if you want a challenge)

3. Factor

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6. Factor

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9. Factor

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14. Factor

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**Section 2.4**

 #4, 5, 9, (13 if you want a challenge)

4. Factor. You may first need to determine a common factor.

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5. Factor

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9. Factor

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**Section 2.5**

 #2, 3, 4, 11



3. Factor.





4. Factor, if possible.

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11. Factor

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| --- | --- |
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