

For questions #1 – 6, factor each trinomial using Sum & Product.

1. $2x^2 - x - 10$	2. $x^2 + 8x + 7$
3. $5x^2 - 16x + 3$	4. $y^2 - 9y + 8$
5. $6x^2 - 7x - 3$	6. $y^2 - 7y - 8$

R1. From  $3x^2 + 2x - 9$  subtract  $x^2 + 6x - 7$

R2. Factor:  $9x^2 - 64$

R3. Simplify:  $(2x - 5)^2$

R4. Simplify:  $\frac{24x^3y^2 - 18x^2y^2 - 6xy^2}{6y^2}$

R5. Factor:  $15x^5y^2 + 24x^2y - 18x^4y^3$

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### Answers to Assignment #66A

1.  $(2x - 5)(x + 2)$

2.  $(x + 7)(x + 1)$

3.  $(5x - 1)(x - 3)$

4.  $(y - 8)(y - 1)$

5.  $(2x - 3)(3x + 1)$

6.  $(y - 8)(y + 1)$

R1.  $2x^2 - 4x - 2$

R2.  $(3x - 8)(3x + 8)$

R3.  $4x^2 - 20x + 25$

R4.  $4x^3 - 3x^2 - x$

R5.  $3x^2y(5x^3y + 8 - 6x^2y^2)$