

1. Factor completely: $y^2 + 19y - 66$

2. Factor completely: $3x^3 - 15x^2 - 42x$

3. Factor completely: $-x^2 + 5x + 6$ (Hint: factor out a -1 first to make things easier)

4. Factor completely: $2x^2 - 7xy + 3y^2$

5. Factor completely: $6x^2 - 19x + 15$

6. Factor completely: $6x^6 + 19x^5 - 7x^4$

Q: What goes up and down but doesn't move?