MPM2D Factoring Review

Date:

1. Complete this exercise. As you make decisions, jot down some explanations as to why you're making each of your choices.

2. Factor each of the expressions following your decision-making process.

Match each expression to the type of factoring you would use to factor it. It is possible that some types may be used more than once.

1) $a^2 - 81$	A) Difference of Squares
2) $x^2 + 4x + 3$	B) Perfect Square
3) $x^2 - 8x + 16$	C) Decomposition ($ax^2 + bx + c$, where a $\neq 1$)
4) $2x^2 + 7x + 6$	D) Common Factoring
5) $x^2 - 7x$	E) Factoring a simple trinomial $(x^2 + bx + c)$
6) $4x^2 - 5x + 1$	
7) $25y^2 - 70y + 49$	
8) $100x^2 - 36y^2$	
9) 4 <i>k</i> - 8 <i>k</i> ³	
10) $x^2 + 3x - 18$	

3. Reflection (optional, study strategy):

Answer the following questions. For i), you can choose to create visual (e.g., flowchart with examples) or describe in words and examples.

i) When would I use each of the different forms of factoring? How do I know this?

ii) When would I be required to use two forms of factoring in one problem?