

1. Factor: $6y - 6x^2y^7$ (Hint: factor out the GCF first)

2. Factor completely: $81x^4 - 16$ (Note: you'll need to factor more than once, so keep going!)

3. Factor completely: $x^3 + 7x^2 - 4x - 28$

(Hint: first factor by grouping, then factor again via the $A^2 - B^2 = (A + B)(A - B)$ formula)

4. Factor: $a^2 - b^2 + 4b - 4$

(Hint: first factor out a “-1” from the last three terms)

5. Factor: $x^3 - 8$

6. Factor: $1 + 27x^3y^3$

Q: What is it the more you take away the larger it becomes?