

WS 12D.2 - Factoring by the First Three Methods

Factor each polynomial by GCF, Difference of Two Squares, or Reverse FOIL.	
1. $10x^3y^2 - 7xy^4$	2. $r^2 - 4$
3. $x^2 - 14x + 49$	4. $25y^2 + 40y + 16$
5. $14m^5n^6p^3 - 16m^7n^3 + 8m^4n^{10}$	6. $121 - 100x^6$
7. $4a^3 + 8a^2 - 16a$	8. $z^2 + 16z + 64$
9. $225x^{10} - 4y^2$	10. $9m^2 + 30mn + 25n^2$
11. $p^2 + 28p + 196$	12. $m^{10} - n^{12}$
13. $9x^4y^7 - 15x^5y^5 + 3x^2y$	14. $49k^4 + 14k^2 + 1$
15. $24j^9k^{10} + 12j^{12}k^7 - 36j^8k^{15} + 48j^{15}k^{11}$	16. $144x^2 - 264x + 121$
17. $16z^2 - 25$	18. $16z^2 + 36$
19. $81r^2 - 234rt + 169t^2$	20. $x^2y^2 + 12xyz + 36z^2$