

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

**WS 12B.1 – Factoring Polynomials by GCF**

#1-14, Factor by the GCF method. If there is no GCF, write “prime.”

1.  $6x + 18$

2.  $7y - 21z$

3.  $4x^2 + 5x^3$

4.  $3a^4b^2 - 10ab^7c$

5.  $8y^3 + 24y^2$

6.  $7a^2 - 49a$

7.  $5w^4y^6 - 20w^3y$

8.  $9a + 8b + 7c^2$

9.  $4p^3 - 12p^2 + 18p$

10.  $15t^8 - 45t^3$

11.  $28a^3b^3 + 14a^2b^4 - 7ab^2$

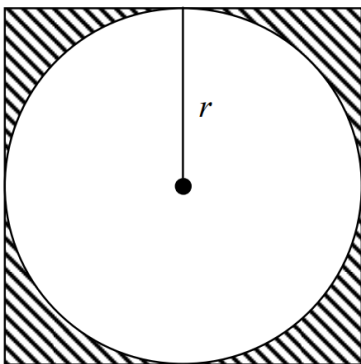
12.  $12x^{10}y^7z^4 - 24x^6y^5 + 36x^{11}y^4z^{10}$

13.  $16x^2 - 12x + 24$

14.  $7m^{12}n^8 - 10mn^5 - 12m^8n^5 - 14m^6n^9$

#15-16, Find the area of the shaded region. Give your answer in factored form.

15.



16.

