

Section 4.5 WS I

Date _____ Period _____

Factor the common factor out of each expression.

1) $-21x^2 + 27$

2) $2ab^3 + 2a^2b$

3) $-40x^7y^3z^5 + 35x^2y^2z^4$

4) $36b^3 - 54b^2 + 60b$

5) $10z + 40zx + 30zx^2y$

6) $10m^4pn^2 - 15m^6p + 25m^3p^2n$

Factor each completely.

7) $9k^2 - 4$

8) $n^2 - 16$

9) $x^2 - 4y^2$

10) $4x^2 - 25y^2$

$$11) 2x^2 - 2y^2$$

$$12) 100x^2 - 64y^2$$

$$13) 50u^2 - 8v^2$$

$$14) 12x^2 - 27y^2$$

$$15) 15p^3 + 9p^2 + 20p + 12$$

$$16) 7k^3 - 28k^2 + 4k - 16$$

$$17) 7uv + 21u + v^2 + 3v$$

$$18) 18az + 3ac + 24xz + 4xc$$

$$19) 2az + 35yc + 14ac + 5yz$$

$$20) 21mn + 6 + 14m + 9n$$