

Name: Answer Date: _____ Block: _____

Directions: USE A SEPARATE SHEET OF PAPER. Factor the following expressions. If any of the following expressions cannot be factored, please indicate so by stating "prime".

1. $36rs^2 - 108r^2s^3$
 $36rs^2(1-3rs)$

4. $6x^2 - 13x - 5$
 $(2x-5)(3x+1)$

7. $6x^2 - 7x - 3$
 $(2x-3)(3x+1)$

2. $2c^5d^4 - 3c^4 + 4c^3$
 $c^3(2c^2d^4 - 3c + 4)$

5. $3x^2 + 10x - 25$
 $(x+5)(3x-5)$

8. $12x^2 - 28x - 5$
 $(2x-5)(6x+1)$

3. $n^2 + 4n - 12$ $(n-2)(n+6)$

6. $10x^2 + 17x + 3$
 $(2x+3)(5x+1)$

9. $3x^2 - 32x + 45$
 $(3x-5)(x-9)$

$\begin{array}{r} -18 \\ -9 \times 2 \\ -7 \end{array}$
 $(6x-9)(6x+2)$

