

gcf factoring WS

18, 19

18.  $37x^4 - 259x^3 - 222x^2$

$37x^2(x^2 - 7x - 6)$

19.  $-396x^3 - 108x^2 + 108x$

$2^{\wedge}198$   
 $2^{\wedge}99$   
 $9^{\wedge}11$   
 $3^{\wedge}3$

$2^{\wedge}54$   
 $2^{\wedge}27$   
 $3^{\wedge}9$   
 $3^{\wedge}3$

$2^2 \cdot 3^2 \cdot 11$

$2^2 \cdot 3^3$

gcf:  $2^2 \cdot 3^2$   
 $4 \cdot 9$   
 $36$

$36x(-11x^2 - 3x + 3)$

25.  $4x^2 + 9x$

$x(4x + 9)$

24.  $-5x^3 - 7x$

$x(-5x^2 - 7)$

$-x(5x^2 + 7)$

30.  $3x^3 + 10x^2 - x$

$x(3x^2 + 10x - 1)$

HW Assessment  
1/6

9.  $36x^3 - 24x^2 + 8x$

factor out gcf