

GCF Factoring

Date _____ Period _____

Factor the common factor out of each expression.

1) $-24n - 8$

2) $12r + 21$

3) $18b^2 + 30$

4) $-18p^2 - 24$

5) $20n^7 + 4n^4$

6) $15x^3 + 45x^2 - 40x$

7) $10x^4 - 7x^2 - 5x$

8) $15x^2 - 25x - 25$

$$9) -6x^3 + 6x^2 + 21$$

$$10) 6a^2 - 36a^3b$$

$$11) -6x^2y^8 + 7x^3y^3$$

$$12) 40yx^5 + 16y$$

$$13) 8ba + 12b^2$$

$$14) 28m^5n - 8m^3p^2 - 24m^5$$

$$15) -5h^2k^6 + 15h^3k^2 - 5hk^2j^2$$

$$16) -12q^2r^4p^3 - 24q^4r^3 - 16q^3r^3$$

$$17) -48m^2pq + 80m^2 - 8m$$

GCF Factoring

Date _____ Period _____

Factor the common factor out of each expression.

1) $-24n - 8$

$-8(3n + 1)$

2) $12r + 21$

$3(4r + 7)$

3) $18b^2 + 30$

$6(3b^2 + 5)$

4) $-18p^2 - 24$

$-6(3p^2 + 4)$

5) $20n^7 + 4n^4$

$4n^4(5n^3 + 1)$

6) $15x^3 + 45x^2 - 40x$

$5x(3x^2 + 9x - 8)$

7) $10x^4 - 7x^2 - 5x$

$x(10x^3 - 7x - 5)$

8) $15x^2 - 25x - 25$

$5(3x^2 - 5x - 5)$

$$9) -6x^3 + 6x^2 + 21$$
$$3(-2x^3 + 2x^2 + 7)$$

$$10) 6a^2 - 36a^3b$$
$$6a^2(1 - 6ab)$$

$$11) -6x^2y^8 + 7x^3y^3$$
$$x^2y^3(-6y^5 + 7x)$$

$$12) 40yx^5 + 16y$$
$$8y(5x^5 + 2)$$

$$13) 8ba + 12b^2$$
$$4b(2a + 3b)$$

$$14) 28m^5n - 8m^3p^2 - 24m^5$$
$$4m^3(7m^2n - 2p^2 - 6m^2)$$

$$15) -5h^2k^6 + 15h^3k^2 - 5hk^2j^2$$
$$5hk^2(-hk^4 + 3h^2 - j^2)$$

$$16) -12q^2r^4p^3 - 24q^4r^3 - 16q^3r^3$$
$$-4q^2r^3(3p^3r + 6q^2 + 4q)$$

$$17) -48m^2pq + 80m^2 - 8m$$
$$8m(-6mpq + 10m - 1)$$