

# U7: Factoring with GCF WS

Algebra 1

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Name

KEY

ID: 2

## Factoring with GCF

Date

Period

Factor the common factor out of each expression.

1)  $-12b - 16$

$$-4(3b + 4)$$

3)  $-4x^3 - 16x$

$$-4x(x^2 + 4)$$

5)  $2b^3 - 3b^2$

$$b^2(2b - 3)$$

7)  $r^4 + r^2$

$$r^2(r^2 + 1)$$

11)  $8 + 6x^4$

$$2(4 + 3x^4)$$

13)  $4n^9 + 12n$

$$4n(n^8 + 3)$$

15)  $-12a - 3$

$$-3(4a + 1)$$

17)  $12n^5 + 16n^3$

$$4n^3(3n^2 + 4)$$

19)  $5k^2 - 40k + 10$

$$5(k^2 - 8k + 2)$$

2)  $-4n^2 + 4n$

$$-4n(n - 1)$$

4)  $n^2 + n$

$$n(n + 1)$$

6)  $5v^6 - 15v^5$

$$5v^5(v - 3)$$

8)  $-12v - 4v^5$

$$-4v(3 + v^4)$$

12)  $2n - 4$

$$2(n - 2)$$

14)  $3r + 9$

$$3(r + 3)$$

16)  $5r + 4r^4$

$$r(5 + 4r^3)$$

18)  $-9x^3 - 12x$

$$-3x(3x^2 + 4)$$