

Name:

**Algebra 1**                      **Unit 8 Factoring by Using the GCF Worksheet**

For each problem below, factor by finding the GCF.

1) $2a^4 + 8a$	2) $5x^3 - 10$
3) $8ab^2 - 12a^2b^3$	4) $10c^3d^2 - 15cd^3$
5) $15f - 20g^2$	6) $3y^4 + 9y^2 - 15$
7) $10d^7 + 2d^5$	8) $7w^5 - 35w^2$
9) $2x + 2y$	10) $-32y^2 - 24y$
11) $6x^2yz + 2xy^2z - 4xyz$	12) $12a^4b^3c^2 - 4a^3bc^2 + 8a^2c - 16ab$

Review – Multiply and simplify.

13) $(2x-9)(x+4)$	14) $(x-4)(2x^2-3x+5)$
15) $(3x+10)^2$	16) $(7x-8)(7x+8)$

Review – Add or subtract.

17) $(x^3-2x^2+8x-4)+(x^2+9x-7)$	18) $(5x^2-4)-(8x^2+3x-9)$
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Review – Write the polynomial in standard form, then tell what type the polynomial is.

19) $5x^2-8-2x^4$	20) $4+2x^3$
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