

Summer Assignment Review- Factoring by Greatest Common Factor

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Factor the common factor out of each expression.

1) $90a + 36a^2 - 81a^3$

2) $20x^5 - 24x^2 + 36x$

3) $-7v^2 + 70v + 7$

4) $5x^6 + 40x^4 - 20x^3$

5) $-8n^4 + 2n^2 - 2$

6) $4n^3 + 2n^2 + 18$

7) $-36x^6 + 90x^4 + 63x^3$

8) $80 + 40m + 8m^2$

9) $90p^4 - 45p^3 - 18p^2$

10) $24b^3 + 64b^2 + 16b$

11) $3r^3 - 3r^2 + 6r$

12) $9k^5 + 27k^4 - 45k^2$

Answers to Summer Assignment Review- Factoring by Greatest Common Factor

1) $9a(10 + 4a - 9a^2)$

2) $4x(5x^4 - 6x + 9)$

3) $7(-v^2 + 10v + 1)$

4) $5x^3(x^3 + 8x - 4)$

5) $2(-4n^4 + n^2 - 1)$

6) $2(2n^3 + n^2 + 9)$

7) $9x^3(-4x^3 + 10x + 7)$

8) $8(10 + 5m + m^2)$

9) $9p^2(10p^2 - 5p - 2)$

10) $8b(3b^2 + 8b + 2)$

11) $3r(r^2 - r + 2)$

12) $9k^2(k^3 + 3k^2 - 5)$