

Name : _____

Simplify: Multi-variable Expressions

MS5

Simplify each expression.

1) $\frac{1}{3}(9b^3c^5 + 15b^2c^5) + (9b^2c^5 - 15b^3c^5)$ 2) $5u^2v^2 - 8uv + 4u^2v^2 - (2uv)^2 - 2uv$

3) $(s^3 - 4tu^2) - (s^3 - 2tu^2 + 4t^2 - 2v^2)$ 4) $3((a-3)^2 - 6q^3) - (-4 - 6q^3 + 4r)$

5) $2x + 15 - 8x +$

7) $3(s^2 + 3tu - 5)$

9) $-6a^5b + 4b(-a^5 + 3c^4 - 2a^5) - 5ab$

10) $6m^6 - 8n + 3(7m^6 - 5n)$

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$- 9b - 6a^4 - 10b)$

$2(9g^4h^3 - 2 + 5gh)$