

Name : _____

Distributive Property and Factoring Worksheet

Take the common factor out to simplify each expression.

① $7a + 21$

② $-15x^4 + 20x^3$

③ $42x^5 + 48x^2$

④ $-4p^2 - 4p$

⑤ $40x^2 + 20$

⑥ $2q^4 + 16$

⑦ $-20q^4 + 10q^3$

⑧ $6a + 36$

⑨ $20p^2 - 55p^3$

⑩ $16m^2 + 8m$

⑪ $16a^2 + 8a$

⑫ $4x^6 - 16$

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Answers

① $7a + 21$

$7(a + 3)$

③ $42x^5 + 48x^2$

$6x^2(7x^3 + 8)$

⑤ $40x^2 + 20$

$20(2x^2 + 1)$

⑦ $-20q^4 + 10q^3$

$10q^3(-2q + 1)$

⑨ $20p^2 - 55p^3$

$5p^2(4 - 11p)$

⑪ $16a^2 + 8a$

$8a(2a + 1)$

② $-15x^4 + 20x^3$

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

④ $-4p^2 - 4p$

$-4p(p - 1)$

⑥ $2q^4 + 16$

$2(q^4 + 8)$

⑧ $6a + 36$

$6(a + 6)$

⑩ $16m^2 + 8m$

$8m(2m + 1)$

⑫ $4x^6 - 16$

$4(x^6 - 4)$