

Factor the greatest common factor out of each expression.

1)  $8p - 7p^2 - 6p^3 + 8p^5$

$$p(8 - 7p - 6p^2 + 8p^4)$$

3)  $16cb + 18ca^5 + 6c^3 + 2c^2b$

$$2c(8b + 9a^5 + 3c^2 + bc)$$

5)  $-27p^4m^6 - 21p^6m - 9p^2q$

$$-3p^2(9m^6p^2 + 7mp^4 + 3q)$$

7)  $54n^4 + 54n^2 + 48n - 54$

$$6(9n^4 + 9n^2 + 8n - 9)$$

9)  $-30 + 30a + 10a^2 - 15a^8$

$$-5(6 - 6a - 2a^2 + 3a^8)$$

11)  $-24 + 28x^2yz^5 + 8x^2y$

$$-4(6 - 7x^2yz^5 - 2x^2y)$$

13)  $-6x^6y^2 - 54y + 24$

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

15)  $45x^2y + 27xy^2$

$$9xy(5x + 3y)$$

17)  $-x + 4y^3z^3$

$$-(x - 4y^3z^3)$$

19)  $10m^4n^2 + 50m^3 - 35m$

$$5m(2m^3n^2 + 10m^2 - 7)$$

2)  $3y^2 - 2x^2 + 8y - 7$

$$3y^2 - 2x^2 + 8y - 7$$

4)  $8y^3z^2 + 6xz^2 - 2x^2$

$$2(4y^3z^2 + 3xz^2 - x^2)$$

6)  $10p^5rq + 9p^5r + 4p^3rq$

$$p^3r(10p^2q + 9p^2 + 4q)$$

8)  $63pr^4q^6 + 35p^2r^3q^5 - 28p^2r^3$

$$7pr^3(9q^6r + 5pq^5 - 4p)$$

10)  $32y + 40x$

$$8(4y + 5x)$$

12)  $-63j^4kh^2 + 14j^4k^2h - 21j^4kh + 35j^2k$

$$-7j^2k(9h^2j^2 - 2hj^2k + 3hj^2 - 5)$$

14)  $20m^2p + 4m^4n$

$$4m^2(5p + m^2n)$$

16)  $-6q^2r^4 + 21qpr^2 - 9q^2p - 6q^2$

$$-3q(2qr^4 - 7pr^2 + 3pq + 2q)$$

18)  $-8x^5y^3 + 14x^2y^2$

$$-2x^2y^2(4x^3y - 7)$$

20)  $35n^5 + 14n^3 - 42n^2 - 28$

$$7(5n^5 + 2n^3 - 6n^2 - 4)$$