

Name: _____

Factor out the GCF

1 $35a^{16} - 25a^{12}$

2 $28ab + 21a$

3 $104p^4q^3r - 56p^3q^4r$

4 $60n^4 - 60n^6 - 80n^3$

5 $2n^2 + 100n$

6 $12d^4 - 18d^2e + 24e^4d$

7 $mnk + 10mnk - 10m$

8 $7u^4v^2w^3 + 14uvw - 21u^3v^2w^2$

9 $-12k^8 + 72k^{12}$

10 $2m + mn - 8m^2$

11 $u^4 + 7u^3 + 2u + 14u^2$

12 $10p^2 - 18p^3q + 12p$

Name: _____

Factor out the GCF

Answers

1 $35a^{16} - 25a^{12}$

2 $28ab + 21a$

$5a^{12}(7a^4 - 5)$

$7a(4b + 3)$

3 $104p^4q^3r - 56p^3q^4r$

4 $60n^4 - 60n^6 - 80n^3$

$8p^3q^3r(13p - 7q)$

$20n^3(3n - 3n^3 - 4)$

5 $2n^2 + 100n$

6 $12d^4 - 18d^2e + 24e^4d$

$2n(n + 50)$

$6d(2d^3 - 3de + 4e^4)$

7 $mnk + 10mnk - 10m$

8 $7u^4v^2w^3 + 14uvw - 21u^3v^2w^2$

$m(nk + 10nk - 10)$

$7uvw(u^3vw^2 + 2 - 3u^2vw)$

9 $-12k^8 + 72k^{12}$

10 $2m + mn - 8m^2$

$12k^8(-1 + 6k^4)$

$m(2 + n - 8m)$

11 $u^4 + 7u^3 + 2u + 14u^2$

12 $10p^2 - 18p^3q + 12p$

$u(u^3 + 7u^2 + 2 + 14u)$

$2p(5p - 9p^2q + 6)$