

## GCF PRACTICE

Factor the common factor out of each expression.

1)  $-3v^4 - 2v$

2)  $-9r^7 - 12$

3)  $10x^2 + 8x$

4)  $-20k^5 + 25k^4$

5)  $-4m^3n - 4mn^2$

6)  $15m^6n^4 + 5m^6n^8$

7)  $4n^3m^2 + n^3$

8)  $15b^2a^3 + 5b^2$

9)  $20x^3y^4z + 15xy^4z$

10)  $acb^3 - 4ac$

$$11) 2m^4pq^2 + m^3pq^2$$

$$12) -3r + 3r^4pq^4$$

$$13) -10m^3 + 15m + 15$$

$$14) 2v^7 - 8v^4 + 8v$$

$$15) -20p^6 + 25p^5 + 5p^3$$

$$16) -12r^6 + 8r^7 - 12r^9$$

$$17) -15x - 6xy + 12xy^2$$

$$18) 6uv - 15u^2v + 15u^5v^2$$

$$19) 6y^4x - 2y^4 + 6y^2$$

$$20) -9ab^5 - 9b^2 + 12$$

## GCF PRACTICE

Factor the common factor out of each expression.

$$1) -3v^4 - 2v$$
$$-v(3v^3 + 2)$$

$$2) -9r^7 - 12$$
$$-3(3r^7 + 4)$$

$$3) 10x^2 + 8x$$
$$2x(5x + 4)$$

$$4) -20k^5 + 25k^4$$
$$5k^4(-4k + 5)$$

$$5) -4m^3n - 4mn^2$$
$$-4mn(m^2 + n)$$

$$6) 15m^6n^4 + 5m^6n^8$$
$$5m^6n^4(3 + n^4)$$

$$7) 4n^3m^2 + n^3$$
$$n^3(4m^2 + 1)$$

$$8) 15b^2a^3 + 5b^2$$
$$5b^2(3a^3 + 1)$$

$$9) 20x^3y^4z + 15xy^4z$$
$$5xy^4z(4x^2 + 3)$$

$$10) acb^3 - 4ac$$
$$ac(b^3 - 4)$$

$$11) 2m^4pq^2 + m^3pq^2 \\ m^3pq^2(2m + 1)$$

$$12) -3r + 3r^4pq^4 \\ 3r(-1 + pq^4r^3)$$

$$13) -10m^3 + 15m + 15 \\ 5(-2m^3 + 3m + 3)$$

$$14) 2v^7 - 8v^4 + 8v \\ 2v(v^6 - 4v^3 + 4)$$

$$15) -20p^6 + 25p^5 + 5p^3 \\ 5p^3(-4p^3 + 5p^2 + 1)$$

$$16) -12r^6 + 8r^7 - 12r^9 \\ 4r^6(-3 + 2r - 3r^3)$$

$$17) -15x - 6xy + 12xy^2 \\ 3x(-5 - 2y + 4y^2)$$

$$18) 6uv - 15u^2v + 15u^5v^2 \\ 3uv(2 - 5u + 5u^4v)$$

$$19) 6y^4x - 2y^4 + 6y^2 \\ 2y^2(3xy^2 - y^2 + 3)$$

$$20) -9ab^5 - 9b^2 + 12 \\ 3(-3ab^5 - 3b^2 + 4)$$