

SM2 5.1: Greatest Common Factor

Name _____ ID: 1

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Date _____ Period _____

Factor the greatest common factor out of each expression.

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

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

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

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

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

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

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

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

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

10) $32y + 40x$

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

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

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

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

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

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

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

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

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

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