How do I factor by greatest common factor?

PRIME

10xy, $15x^2y^2$, $20x^4$ $2.5 \cdot xy$, $3.5x \cdot x \cdot y \cdot y$, $2.2.5 \cdot x \cdot x \cdot x \cdot x$ FACTOR: 2(2xy+3)

Ex.
$$7x+14$$
 FACTOR
by
 $7x+7\cdot 2$ GCF
 $7(x+2)$

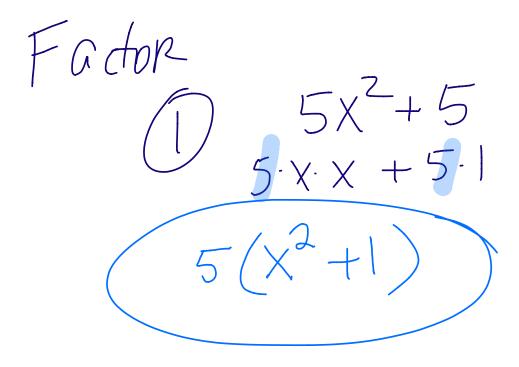
Factor.

$$\frac{12x^{3}y - 15xy^{3}}{2 \cdot 2 \cdot 3 \cdot x \cdot x \cdot y - 3 \cdot 5 \cdot x \cdot y \cdot y \cdot y}$$

$$3xy(4x^{2} - 5y^{2})$$

EX. Factor $28 \times 3y^{4} - 12 \times 2y^{5} + xy$ $28 \times xyyyyy + 12 \times yyyyyy + xy$ $xy(28x^{2}y^{3} - 12xy^{4} + 1)$

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$$\frac{2}{9mp^2-45m}$$
 $\frac{9mp^2-45m}{9.5.m}$
 $\frac{9mp^2-5}{9m(p^2-5)}$

$$\frac{3}{90a + 36a^{2} - 81a^{3}}$$

$$\frac{9 \cdot 10 \cdot a + 9 \cdot 4 \cdot a \cdot a - 9 \cdot 9 \cdot a \cdot a \cdot a}{9 \cdot 10 + 4a - 9a^{2}}$$

$$4$$
 $12cd^{3}-8c^{2}d^{2}+10c^{5}d^{3}$
 $2\cdot6\cdot c\cdot d\cdot d\cdot d-2\cdot 4\cdot c\cdot c\cdot d\cdot d+2\cdot 5\cdot c\cdot c\cdot c\cdot c\cdot c\cdot d\cdot d\cdot d$
 $2cd^{2}(6d-4c+5c^{4}d)$

FACTOR

- 1 3u-21v-9uv7
- 2) 90n5+63n4+81n3
- (3) 12n2 + 40n + 4
- $4) 5m^5n^2 9m^2n^3 2m^2n$

State GCF

- 5 36×, 18y²× 6 122 b²
 - 36 ab 36 b3 a