

What is the Greatest Common Factor

$$44 = 2 \times 2 \times 11$$

$$132 = 2 \times 2 \times 3 \times 11$$

What is the Greatest Common Factor

856
$$x^2y^3$$
 AND 1200 x^4y^2

856 $x^3y^3 = 3 \cdot 3 \cdot 3 \cdot 5 \cdot 5 \cdot x \cdot x \cdot y \cdot y$

1300 $x^4y^3 = 3 \cdot 3 \cdot 3 \cdot 5 \cdot 5 \cdot x \cdot x \cdot x \cdot y \cdot y$

6(F = $3 \cdot 3 \cdot 3 \cdot 3 \cdot x \cdot x \cdot y \cdot y$

How many terms are there? 3

Is there anything common to all of them?

$$3x + 10xy - 7xyz$$

Divide all terms by the SCF

Createst Sactor

Social Sactor

 $3x = 3x^{\circ} = 3$
 $5xy = 10xy = 10y$
 $5xyz = 7xyz =$

Remember
$$3x + 10xy - 7xyz$$

$$3x \longrightarrow 3.x \\
10xy \longrightarrow 2.5.x \\
7xyz \longrightarrow 7.x \\
3x + 10xy - 7xyz$$

We need to factor out an
"x".

$$3x + 10xy - 7xyz$$

Dinde all terms
$$y''x''$$

What do you notice?

$$x^6 + x^5$$

$$x^{5}(\times +1)$$

$$\frac{\chi^6}{\chi^5} = \chi^{6-5} = \underline{\chi}$$

$$\frac{\chi^{5}}{\chi^{5}} = \chi^{5-5} = \chi^{\delta} = \underline{\downarrow}$$

$$x^6 + x^5$$

$$x^{6} = (x) \cdot (x) \cdot (x) \cdot (x) \cdot x$$

$$x^{5} = (x) \cdot (x) \cdot (x) \cdot (x) \cdot x$$

$$x \cdot x \cdot x \cdot x \cdot x \cdot x = x^{5}$$

Take out the greatest common factor, which will be the smallest of the like powers!!

14xy + 28xyz

$$\begin{array}{c}
 14 = 2.7 & \text{x}. \text{y} \\
 28 = 2.2 & 7 & \text{x}. \text{y}. \text{z} \\
 \underline{2}.7 \cdot \underline{x}.\underline{y} = 14xy & \text{GCF}
 \end{array}$$

$$\frac{14xy}{14xy} = \frac{1}{14xy}$$

1.
$$a^{5}c^{6}z^{11} + a^{9}c^{10}z^{13}$$

2.
$$25x^7 - 15x^5$$

 $5x^5(5x^3 - 3)$

$$\frac{a^{5}6^{2}}{a^{5}6^{2}} = 1$$

$$\frac{35x^{7}}{5x^{5}} = 5x^{3}$$

$$\frac{-15x^{5}}{5x^{5}} = -3x^{0} = -3$$

3.
$$\underbrace{12x^{7}y^{8} - 24x^{9}y^{4}}_{24x^{9}y^{4}} \left(y^{4} - \partial x^{9} \right)$$

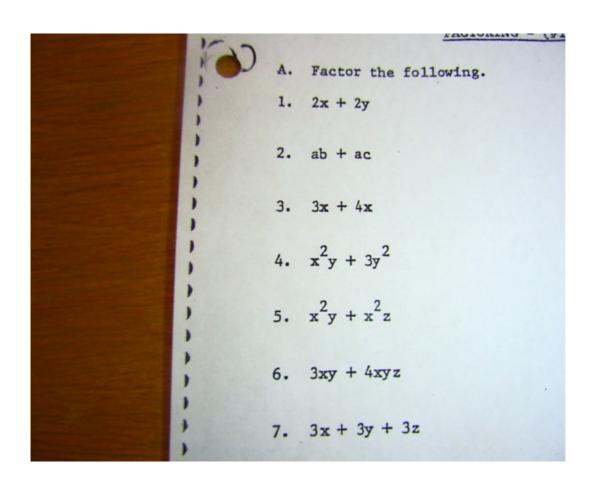
4.
$$13x^2y^5w^3 - 39x^5y^2w + 26x^3y$$

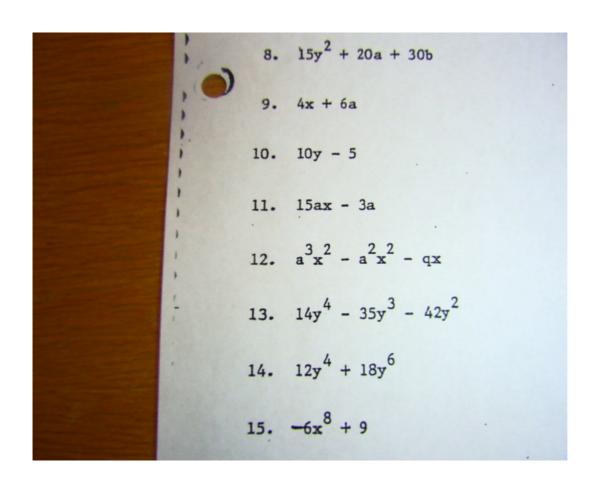
 $13x^3y(y^4w^3 - 3x^3yw + 3x)$

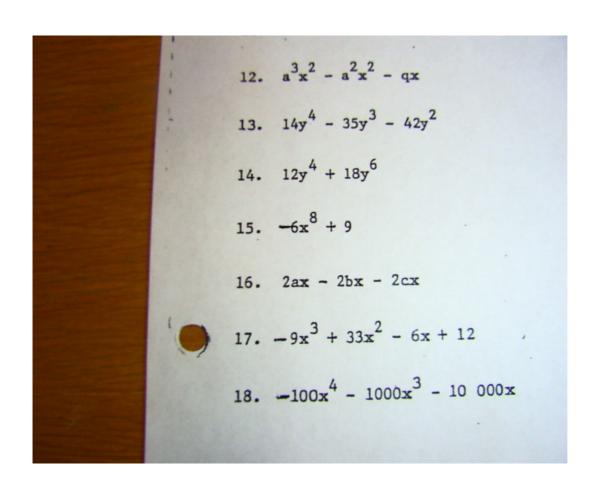
5.
$$91x - 7y$$

 $\frac{13x - y}{}$

6.
$$2x^{5}y^{3} - 8x^{2}y^{2} + 10y$$







19.
$$2x^3 - 10x^2 + 12x$$

20. $4y^3 + 8y^2 - 4y$
21. $8x^2 - 24x + 96$
22. $-63y^5 + 15y^3 - 27y^2 + 45y$
23. $-10ey^5 - 30e^2y^2 + 45ey - 15e$
24. $36a^7x^4 - 42a^9x^2$
25. $4y^3 - 2ay^2$
26. $-3y^4 - 6y^3 + 21y^2$

