

| Algebra II |                          |     |              |           |         |                             |
|------------|--------------------------|-----|--------------|-----------|---------|-----------------------------|
| pg 181     |                          |     |              |           |         |                             |
|            |                          | GCF | LCM          |           | GCF LCM |                             |
| 1)         | $2^2 \cdot 5 \cdot 7$    | 10) | 15           | 225       | 19)     | $17y^2z$ $204xy^2z^2$       |
| 2)         | $2 \cdot 3^2 \cdot 11$   | 11) | 12           | 432       | 20)     | $26rs$ $156r^2s^2t$         |
| 3)         | prime                    | 12) | 105          | 1575      | 21)     | $22h^2k^2r$ $440h^3k^2r^2$  |
| 4)         | $2^2 \cdot 3^3 \cdot 7$  | 13) | 28           | 840       | 22)     | $14abc$ $490a^2b^2c^2$      |
| 5)         | $3^2 \cdot 7^2$          | 14) | 28           | 5880      | 23)     | 7 $42abc$                   |
| 6)         | $7 \cdot 29$             | 15) | 1            | 315       | 24)     | $11xyz$ $132x^2y^2z^2$      |
| 7)         | $2^2 \cdot 7^2 \cdot 13$ | 16) | 1            | 1260      | 25)     | $13p^2q^2r^2$ $78p^3q^3r^3$ |
| 8)         | $3^3 \cdot 11 \cdot 13$  | 17) | $3p^2$       | $45p^3q$  | 26)     | $100abc$ $1200a^3b^3c^3$    |
| 9)         | $5$<br>GCF               |     | $140$<br>LCM |           |         |                             |
|            |                          | 18) | $7x^2$       | $245x^3y$ |         |                             |

Nov 1-3:10 PM

19)  $68xy^2z$       $51y^2z^2$

$\begin{matrix} \wedge & & \wedge \\ 2 & 34 & 3 & 17 \\ & \wedge & & \\ & 17 & 2 & \end{matrix}$

$2^2 \cdot 17xy^2z$       $3 \cdot 17y^2z^2$

GCF:  $17y^2z$

LCM:  $2^2 \cdot 3 \cdot 17xy^2z^2$

$204xy^2z^2$

  

21)  $110h^3k^2r$       $-88h^2k^2r^2$

$\begin{matrix} \wedge & & \wedge \\ 2 & 55 & 8 & 11 \\ & \wedge & & \wedge \\ & 5 & 11 & 4 & 2 \\ & & & \wedge & \\ & & & 2 & 2 \end{matrix}$

$2 \cdot 5 \cdot 11h^3k^2r$

$2^3 \cdot 11h^2k^2r^2$

GCF:  $2 \cdot 11h^2k^2r = 22h^2k^2r$

LCM:  $2^3 \cdot 5 \cdot 11h^3k^2r^2$

$= 440h^3k^2r^2$

Oct 31-9:25 AM