

Algebra II

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2.) $2x^2y(3y+4x)$	14.) $(3x^2+4z)(3x^2-4z)$	30.) $(z+1+w)(z+1-w)$
4.) $(z-6)^2$	16.) $pq(p+1)(p-1)$	32.) $(x-y-2)(x+y+2)$
6.) $(11x+1)(11x-1)$	22.) $(u-2)(v-1)$	34.) $(2u^2v+1)^2$
8.) $(3s-4)^2$	24.) $(u+2)(v-1)$	38.) $(p^2+q^2)(p+q)(p-q)$
10.) $(2h+9)(2h-9)$	26.) $(y-1)(x-2)$	
2.) $(4x+5y)^2$	28.) $(2a-1)(2b-1)$	

Nov 7-9:00 AM

12)  $16x^2 + 40xy + 25y^2$

$(4x + 5y)(4x + 5y)$

$\begin{array}{r} 20xy \\ 20xy \\ \hline 40xy \end{array}$

$(4x+5y)^2$

6)  $121x^2 - 1$

$(11x + 1)(11x - 1)$

14)  $9x^4 - 16z^2$

$(3x^2 + 4z)(3x^2 - 4z)$

16)  $p^3q - pq$

$\rightarrow pq(p^2 - 1)$

$pq(p+1)(p-1)$

22)  $u(v-1) - 2(v-1)$

$(v-1)(u-2)$

Nov 4-9:22 AM

$$\begin{aligned}
 26) \quad & xy - 2y - x + 2 \\
 & \overbrace{(xy - x)} + \overbrace{(-2y + 2)} \\
 & x(y-1) - 2(y-1) \\
 & \quad \downarrow \quad \quad \quad \downarrow \\
 & (y-1)(x-2)
 \end{aligned}$$

Nov 4-9:30 AM

$$\begin{aligned}
 30) \quad & (z^2 + 2z + 1) - w^2 \\
 & (z+1)(z+1) - w^2 \\
 & (z+1)^2 - w^2 \\
 & [z+1+w][z+1-w]
 \end{aligned}$$

Nov 4-9:32 AM

$$32) \quad x^2 - y^2 - 4y - 4$$

$$x^2 + (-y^2 - 4y - 4)$$

$$x^2 - (y^2 + 4y + 4)$$

Finish on own

$$38) \quad p^4 - q^4$$

$$(p^2 + q^2)(p^2 - q^2)$$

Still diff. of sq.

$$(p^2 + q^2)(p + q)(p - q)$$

$$34) \quad \overset{1/2, 1/2}{4u^2v^2 + 4u^2v + 1}$$
$$(2u^2v + 1)(2u^2v + 1)$$

Nov 4-9:35 AM