

Warm Up

P1

1) $3(a+4) + 6(a-5)$
 $3a + 12 + 6a + 30$

2) $7x^2(x-3) - 4(x^2+2)$
 $7x^3 - 21x^2 - 4x^2 - 8$
 $7x^3 - 25x^2 - 8$

Warm Up

P6



$2(7w^2 - w) - 3w(w+1) - (w^2 - 4w + 2)$

$14w^2 - 2w - 3w^2 - 3w - w^2 + 4w - 2$

$10w^2 - w - 2$

Binomial x Binomial

ex $(x+3)(x+4)$
 $x^2 + 4x + 3x + 12$
 $x^2 + 7x + 12$

ex $(x-5)(x+2)$

Foil $x^2 + 2x - 5x - 10$
 $x^2 - 3x - 10$

$(x-2)(x-3)$
 $x^2 - 3x - 2x + 6$
 $x^2 - 5x + 6$

$(x+3)^2$
 $(x+3)(x+3)$
P186
#5
 not board
#15a

<p><u>Easy</u></p> $(x-7)(x+5)$ $x^2 + 5x - 7x - 35$ $x^2 - 2x - 35$	<p><u>Medium</u></p> $(3x-5)(4x+1)$ $12x^2 + 3x - 20x - 5$ $12x^2 - 17x - 5$	<p><u>Hard</u></p> $(3x+7x)(4-2x^2)$ $12x^2 - 6x^4 + 28x - 14x^3$ $-6x^4 - 14x^3 + 12x^2 + 28x$
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<p><u>Medium</u></p> $(5x-7)(2x+9)$ $10x^2 + 45x - 14x - 63$ $10x^2 + 31x - 63$	<p><u>Hard</u></p> $(3x^3+7x)(1-8x^5)$ $3x^3 - 24x^8 + 7x - 56x^6$ $-24x^8 - 56x^6 + 3x^3 + 7x$
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$(x+3)^3$
 $(x+3)(x+3)(x+3)$
 $x^2 + 3x + 3x + 9$
 $(x^2 + 6x + 9)(x+3)$
 $x^3 + 3x^2 + 6x^2 + 18x + 9x + 27$
 $x^3 + 9x^2 + 27x + 27$

$$3x(x+2)(x-7)$$

$$(3x^2+6x)(x-7)$$

$$3x^3-21x^2+6x^2-42x$$

$$3x^3-15x^2-42x$$

