

Warm Up

1) Expand $3(2x+5)(x+4)$

2) Factor

a) $30x^4y^7 - 24x^3y - 18x^2y$

b) $14a-12b$

c) $1-64t^2$

d) $2x^2-x-6$

e) $x^2 + 6x + 9$

$$3(2x+5)(x+4)$$

$$(6x+15)(x+4)$$

$$6x^2 + 24x + 15x + 60$$

$$6x^2 + 39x + 60$$

Ex)

$$(x-3)^2$$

$$(x-3)(x-3)$$

$$x^2 - 3x - 3x + 9$$

$$x^2 - 6x + 9$$

$$2a) \quad 30x^4y^7 - 24x^3y^8 - 18x^2y^9$$

$$6x^2y^7 (5x^2y^6 - 4xy^7 - 3y^8)$$

$$b) \quad 14a - 12b$$

$$2(7a - 6b)$$

Diff of sq

$$c) \quad 1 - 64t^2$$

$$\uparrow \quad \uparrow \uparrow$$

$$(1 - 8t)(1 + 8t)$$

$$d) \quad 2x^2 - x - 6$$

x	$+$
-12	-1
$+1, 12$	
$+2, 6$	
$+3, 4$	

$$2x^2 - 4x + 3x - 6$$

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

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

$$e) \quad x^2 + 6x + 9$$

$$(x+3)(x+3)$$

$$(x+3)^2$$

perfect square trinomial

$\frac{1}{9}$	$+$
$+3, 3$	$\frac{1}{6}$

$$14) \quad 16b^2 - 28b - 8$$

$$4 (4b^2 - 7b - 2)$$

$$4 (4b^2 - 8b + 1b - 2)$$

$$4 \cdot 4b(b-2) + 1(b-2)$$

$$4 (b-2)(4b+1)$$

X	+
-8	-7
+1, -8	
+2, -4	

$$\begin{aligned} 11) \quad & 4x^2 + 4x + 1 \\ & (2x + 1)^2 \end{aligned}$$

Class/
Homework
Page 194 #4a,c,e, #5a,b, #6
Page 198
Questions: 1d 4,13, 20a, , 28ab, 30a, b, 32,33,

Attachments

Factoring TEST Review Worksheet (A Mix of Simple Hard & Special).pdf

Day 12.5_ Perfect Squares Test Review _HW Solutions to Day 12.notebook