

Factorized on III.

01. a $2x - (x - 2y) + 5y$

$$2x - x + 2y + 5y$$

$$x + 7y //$$

b. $4(3a - 2b) - 6(2a - b)$

$$12a - 8b - 12a + 6b$$

$$-2b //$$

c. $6(2c + d) - 2(3c - d) + 5$

$$12c + 6d - 6c + 2d + 5$$

$$6c + 8d + 5 //$$

d. $6a - 2(3a - 5b) - (a + 4b)$

$$6a - 6a + 10b - a - 4b$$

$$6b - a //$$

~~e. $6a - 2$~~

e. $3x(2x - 3y + 2z) - 4x(2x + 5y - 3z)$

$$6x^2 - 9xy + 6xz - 8x^2 - 20xy + 12xz$$

$$-2x^2 + 18xz - 29xy$$

f. $2xy(3x - 4y) - 5xy(2x - y)$

$$6x^2y - 8xy^2 - 10x^2y + 5xy^2$$

$$-4x^2y - 3xy^2$$

g. $2a^2(3a - 2ab) - 5ab(2a^2 - 4ab)$

$$6a^3 - 4a^3b - 10a^3b + 20a^2b^2$$

$$6a^3 - 14a^3b + 20a^2b^2 //$$

Atlas

$$h. -3p - (p+q) + 2(p-q)$$

$$-3p - p - q + 2p - 2q$$

$$-4p - 3q$$

$$j. (3a-5b)(2a-b)$$

$$6a^2 - 3ab - 10ab + 5b^2$$

$$6a^2 - 13ab + 5b^2 //$$

$$l. (2y-5)^2$$

$$(2y-5)(2y-5)$$

$$4y^2 - 10y - 10y + 25$$

$$4y^2 - 20y + 25 //$$

$$i. (2x+3y)(x+5y)$$

$$2x^2 + 10xy + 3xy + 15y^2$$

$$2x^2 + 13xy + 15y^2 //$$

$$k. (3x+2)^2$$

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

$$9x^2 + 6x + 6x + 4$$

$$9x^2 + 12x + 4 //$$

$$m. (2p^2+3pq)(q^2-2pq)$$

$$2p^2q^2 - 4p^3q + 3pq^3 - 6p^2q^2$$

$$-4p^2q^2 - 4p^3q + 3pq^3 //$$

$$2. a. 5a+10b$$

$$5(a+2b)$$

$$b. 3a^2+2ab$$

$$a(3a+2b)$$

$$c. 3a^2-6ab$$

$$3a(a-2b)$$

$$d. 5xy+8xz$$

$$x(5y+8z)$$

$$e. 5xy-10xz$$

$$5x(y-2z)$$

$$f. a^2b+3ab^2$$

$$ab(a+3b)$$

$$g. 4pq^2-6p^2q$$

$$2pq(2q-3p)$$

$$h. 3x^2y^3+5x^3y^2$$

$$x^2y^2(3y+5x)$$

$$i. 4p^2q+2pq^2-6p^2q^2$$

$$2pq(2p+q-3pq)$$

$$j. 2a^2b^3+3a^3b^2-6a^2b^2$$

$$ab^2(2b+3a-6ab)$$

$$a^2b^2(2(b-3ab)+3a)$$

No: _____

Date: _____

3 a. $x^2 - y^2$ b. $4a^2 - 9b^2$
 $(x+y)(x-y)$ $(2a-3b)(2a+3b)$

c. $16p^2 - 9q^2$ d. $16a^2 - 25b^2$
 $(4p+3q)(4p-3q)$ $(4a-5b)(4a+5b)$

e. $36p^2 - 100q^2$
 $(6p+10q)(6p-10q)$