

Worksheet

02/02/2020

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Problem quickname: 7596

1)

Fill in the blank cells with the correct terms, as shown in the example. a and b stand for a and b in $(a + b)^2$ or $(a - b)^2$. Hint: All numbers are positive.

Quick:
7596

formula	a	b	a^2	b^2	$2ab$	expanded form
$(s + r)^2$	s	r	s^2	r^2	$2sr=2rs$	$r^2+2rs+s^2$
$(y + x)^2$	y	x	y^2	x^2	$2yx=2xy$	$x^2+2xy+y^2$
$(x - y)^2$	x	y	x^2	y^2	$2xy=2xy$	$x^2-2xy+y^2$
$(13 + r)^2$	13	r	169	r^2	$2 \cdot 13r=26r$	$r^2+26r+169$
$(r + 3)^2$	r	3	r^2	9	$2r3=6r$	r^2+6r+9
$(r - s)^2$	r	s	r^2	s^2	$2rs=2rs$	$r^2-2rs+s^2$
$(14 + x)^2$	14	x	196	x^2	$2 \cdot 14x=28x$	$x^2+28x+196$
$(x + 4)^2$	x	4	x^2	16	$2x4=8x$	$x^2+8x+16$
$(y - x)^2$	y	x	y^2	x^2	$2yx=2xy$	$x^2-2xy+y^2$
$(x - 2)^2$	x	2	x^2	4	$2x2=4x$	x^2-4x+4

2)

Fill in the blank cells with the correct terms, as shown in the example. a and b stand

Quick:
7596

for a and b in $(a + b)(a - b)$. Hint: All numbers are positive.

formula	a	b	a^2	b^2	expanded form
$(4y + 6x)(4y - 6x)$	$4y$	$6x$	$16y^2$	$36x^2$	$16y^2 - 36x^2$
$(6r + 8s)(6r - 8s)$	$6r$	$8s$	$36r^2$	$64s^2$	$36r^2 - 64s^2$
$(3s + 5r)(3s - 5r)$	$3s$	$5r$	$9s^2$	$25r^2$	$9s^2 - 25r^2$
$(8s + 7r)(8s - 7r)$	$8s$	$7r$	$64s^2$	$49r^2$	$64s^2 - 49r^2$
$(9s + 8r)(9s - 8r)$	$9s$	$8r$	$81s^2$	$64r^2$	$81s^2 - 64r^2$
$(8s + 2r)(8s - 2r)$	$8s$	$2r$	$64s^2$	$4r^2$	$64s^2 - 4r^2$
$(8y + 4x)(8y - 4x)$	$8y$	$4x$	$64y^2$	$16x^2$	$64y^2 - 16x^2$
$(5y + 2x)(5y - 2x)$	$5y$	$2x$	$25y^2$	$4x^2$	$25y^2 - 4x^2$
$(4r + 9s)(4r - 9s)$	$4r$	$9s$	$16r^2$	$81s^2$	$16r^2 - 81s^2$
$(8x + 9y)(8x - 9y)$	$8x$	$9y$	$64x^2$	$81y^2$	$64x^2 - 81y^2$

3)

Fill in the blank cells with the correct terms, as shown in the example. a and b stand for a and b in $(a + b)(a - b)$.

Quick:
7596

formula	a	b	a^2	b^2	expanded form
$(r + s)(r - s)$	r	s	r^2	s^2	$r^2 - s^2$
$(13 + r)(13 - r)$	13	r	169	r^2	$169 - r^2$
$(x + 3)(x - 3)$	x	3	x^2	9	$x^2 - 9$
$(3 + x)(3 - x)$	3	x	9	x^2	$9 - x^2$
$(y + x)(y - x)$	y	x	y^2	x^2	$y^2 - x^2$
$(x + y)(x - y)$	x	y	x^2	y^2	$x^2 - y^2$
$(r + 2)(r - 2)$	r	2	r^2	4	$r^2 - 4$
$(x + 9)(x - 9)$	x	9	x^2	81	$x^2 - 81$
$(18 + r)(18 - r)$	18	r	324	r^2	$324 - r^2$
$(19 + r)(19 - r)$	19	r	361	r^2	$361 - r^2$

4)

Fill in the blank cells with the correct terms, as shown in the example. a and b stand

Quick:
7596

for a and b in $(a + b)^2$ or $(a - b)^2$. Hint: All numbers are positive.

formula	a	b	a^2	b^2	$2ab$	expanded form
$(4s - 3r)^2$	$4s$	$3r$	$16s^2$	$9r^2$	$2 \cdot 4s3r = 24rs$	$9r^2 - 24rs + 16s^2$
$(2y + 7x)^2$	$2y$	$7x$	$4y^2$	$49x^2$	$2 \cdot 2y7x = 28xy$	$49x^2 + 28xy + 4y^2$
$(3s + 4r)^2$	$3s$	$4r$	$9s^2$	$16r^2$	$2 \cdot 3s4r = 24rs$	$16r^2 + 24rs + 9s^2$
$(7s + 8r)^2$	$7s$	$8r$	$49s^2$	$64r^2$	$2 \cdot 7s8r = 112rs$	$64r^2 + 112rs + 49s^2$
$(5s + 7r)^2$	$5s$	$7r$	$25s^2$	$49r^2$	$2 \cdot 5s7r = 70rs$	$49r^2 + 70rs + 25s^2$
$(8x + 6y)^2$	$8x$	$6y$	$64x^2$	$36y^2$	$2 \cdot 8x6y = 96xy$	$64x^2 + 96xy + 36y^2$
$(8s - 7r)^2$	$8s$	$7r$	$64s^2$	$49r^2$	$2 \cdot 8s7r = 112rs$	$49r^2 - 112rs + 64s^2$
$(4r - 9s)^2$	$4r$	$9s$	$16r^2$	$81s^2$	$2 \cdot 4r9s = 72rs$	$16r^2 - 72rs + 81s^2$
$(8x + 9y)^2$	$8x$	$9y$	$64x^2$	$81y^2$	$2 \cdot 8x9y = 144xy$	$64x^2 + 144xy + 81y^2$
$(4y + 4x)^2$	$4y$	$4x$	$16y^2$	$16x^2$	$2 \cdot 4y4x = 32xy$	$16x^2 + 32xy + 16y^2$

Good Luck!