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.

formula	a	b	a^2	b^2	$2ab$	expanded form
$(s+r)^2$	s	r	s^2	r^2	$2sr{=}2rs$	$r^2{+}2rs{+}s^2$
$(\quad+\quad)^2$						$x^2{+}2xy{+}y^2$
$(\quad-\quad)^2$			x^2	y^2		
$(\quad+\quad)^2$						$r^2{+}26r{+}169$
$(\quad+\quad)^2$						$r^2{+}6r{+}9$
$(\quad-\quad)^2$	r			s^2		
$(\quad+\quad)^2$						$x^2{+}28x{+}196$
$(\quad+\quad)^2$						$x^2{+}8x{+}16$
$(\quad-\quad)^2$			y^2	x^2		
$(\quad-\quad)^2$		2	x^2			

2)

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

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

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

3)

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

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			
	x	3			
	3	x			
	y	x			
	x	y			
	r	2			
	x	9			
	18	r			
	19	r			

4)

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.

formula	a	b	a^2	b^2	$2ab$	expanded form
$(4s-3r)^2$	$4s$	$3r$	$16s^2$	$9r^2$	$2{\cdot}4s3r{=}24rs$	$9r^2{-}24rs{+}16s^2$
$(\quad+\quad)^2$			$4y^2$	$49x^2$		
$(\quad+\quad)^2$	$3s$	$4r$				
$(\quad+\quad)^2$			$49s^2$	$64r^2$		
$(\quad+\quad)^2$	$5s$	$7r$				
$(\quad+\quad)^2$	$8x$	$6y$				
$(\quad-\quad)^2$						$49r^2{-}112rs{+}64s^2$
$(\quad-\quad)^2$	$4r$			$81s^2$		
$(\quad+\quad)^2$						$64x^2{+}144xy{+}81y^2$
$(4y+4x)^2$						

Good Luck!