

# 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
$(r - 19)^2$	$r$	19	$r^2$	361	$2r19=38r$	$r^2 - 38r + 361$
$(r - 10)^2$						
$( \quad + \quad )^2$						$x^2 + 2xy + y^2$
$( \quad + \quad )^2$			64	$r^2$		
$( \quad - \quad )^2$	$x$	$y$				
$( \quad + \quad )^2$		$r$	$s^2$			
$( \quad - \quad )^2$	$x$	16				
$( \quad - \quad )^2$	$r$			400		
$( \quad + \quad )^2$	$r$	$s$				
$( \quad - \quad )^2$			$s^2$	$r^2$		

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
$(8s + 3r)(8s - 3r)$	$8s$	$3r$	$64s^2$	$9r^2$	$64s^2 - 9r^2$
	$4r$	$7s$			
			$81x^2$	$81y^2$	
	$3s$			$36r^2$	
					$49r^2 - 81s^2$
					$36r^2 - 25s^2$
$(8r + 3s)(8r - 3s)$					
	$5x$	$9y$			
$(6s + 4r)(6s - 4r)$					
			$4x^2$	$36y^2$	

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
$(20 + x)(20 - x)$	$20$	$x$	$400$	$x^2$	$400 - x^2$
	$7$	$x$			
	$x$	$y$			
	$x$	$9$			
	$r$	$13$			
	$r$	$s$			
	$17$	$x$			
	$x$	$11$			
	$8$	$r$			
	$s$	$r$			

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
$(2r - 6s)^2$	$2r$	$6s$	$4r^2$	$36s^2$	$2 \cdot 2r6s = 24rs$	$4r^2 - 24rs + 36s^2$
$( \quad + \quad )^2$						$16x^2 + 48xy + 36y^2$
$( \quad - \quad )^2$	$3x$	$9y$				
$( \quad + \quad )^2$						$64r^2 + 128rs + 64s^2$
$( \quad + \quad )^2$						$81r^2 + 36rs + 4s^2$
$( \quad + \quad )^2$						$25x^2 + 70xy + 49y^2$
$( \quad + \quad )^2$						$81x^2 + 108xy + 36y^2$
$( \quad + \quad )^2$		$7y$	$100x^2$			
$( \quad - \quad )^2$	$7s$	$5r$				
$( \quad - \quad )^2$						$64r^2 - 112rs + 49s^2$

Good Luck!