

# 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
$(s + r)^2$	$s$	$r$	$s^2$	$r^2$	$2sr=2rs$	$r^2+2rs+s^2$
$( \quad - \quad )^2$						$r^2-8r+16$
$( \quad + \quad )^2$			100	$x^2$		
$( \quad - \quad )^2$	$r$	6				
$( \quad - \quad )^2$			$r^2$	$s^2$		
$( \quad - \quad )^2$						$x^2-2xy+y^2$
$(14 + r)^2$						
$( \quad - \quad )^2$			$r^2$	49		
$( \quad - \quad )^2$			9	$r^2$		
$( \quad - \quad )^2$						$r^2-2rs+s^2$

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
$(7r + 5s)(7r - 5s)$	$7r$	$5s$	$49r^2$	$25s^2$	$49r^2 - 25s^2$
	$9r$			$25s^2$	
	$10r$	$9s$			
					$36s^2 - 25r^2$
					$49r^2 - 9s^2$
$(4y + 9x)(4y - 9x)$					
	$3r$	$4s$			
			$81r^2$	$64s^2$	
	$2y$	$5x$			
$(6s + 8r)(6s - 8r)$					

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
$(r + s)(r - s)$	$r$	$s$	$r^2$	$s^2$	$r^2 - s^2$
	$20$	$r$			
	$x$	$y$			
	$r$	$9$			
	$s$	$r$			
	$19$	$r$			
	$x$	$3$			
	$r$	$15$			
	$9$	$x$			
	$x$	$15$			

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
$(10s - 8r)^2$	$10s$	$8r$	$100s^2$	$64r^2$	$2 \cdot 10s \cdot 8r = 160rs$	$64r^2 - 160rs + 100s^2$
$(6y + 7x)^2$						
$( \quad - \quad )^2$			$100y^2$	$25x^2$		
$( \quad - \quad )^2$	$4x$	$3y$				
$( \quad + \quad )^2$	$6s$			$9r^2$		
$( \quad + \quad )^2$		$3s$	$4r^2$			
$( \quad - \quad )^2$						$25x^2 - 90xy + 81y^2$
$(6y + 6x)^2$						
$( \quad + \quad )^2$	$5y$	$6x$				
$( \quad - \quad )^2$			$49r^2$	$49s^2$		

Good Luck!