



Math worksheet on 'Pythagorean Equation from Variables - Length of Hypotenuse (Radical) (Level 1)'. Part of a broader unit on 'Pythagoras - Foundations'

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1 Find the radical (square root) for the value of 'c' in this equation

$$a^2 + b^2 = c^2$$

$$a = 4$$

$$b = 5$$

$$c = ?$$

a	b
$c = \sqrt{9}$	$c = \sqrt{-9}$

c	
$c = \sqrt{41}$	

2 Find the radical (square root) for the value of 'c' in this equation

$$a^2 + b^2 = c^2$$

$$a = 2$$

$$b = 3$$

$$c = ?$$

a	b
$c = \sqrt{13}$	$c = \sqrt{-5}$

c	d
$c = \sqrt{31}$	$c = \sqrt{22}$

e	
$c = \sqrt{5}$	

3 Find the radical (square root) for the value of 'c' in this equation

$$a^2 + b^2 = c^2$$

$$a = 2$$

$$b = 5$$

$$c = ?$$

a	b	c
$c = \sqrt{54}$	$c = \sqrt{29}$	$c = \sqrt{21}$

d	
$c = \sqrt{79}$	

4 Find the radical (square root) for the value of 'c' in this equation

$$a^2 + b^2 = c^2$$

$$a = 3$$

$$b = 6$$

$$c = ?$$

a	b
$c = \sqrt{27}$	$c = \sqrt{45}$

5 Find the radical (square root) for the value of 'c' in this equation

$$a^2 + b^2 = c^2$$

$$a = 5$$

$$b = 4$$

$$c = ?$$

a	b	c
$c = \sqrt{57}$	$c = \sqrt{9}$	$c = \sqrt{41}$

6 Find the radical (square root) for the value of 'c' in this equation

$$a^2 + b^2 = c^2$$

$$a = 6$$

$$b = 4$$

$$c = ?$$

a	b
$c = \sqrt{52}$	$c = \sqrt{20}$

7 Find the radical (square root) for the value of 'c' in this equation

$$a^2 + b^2 = c^2$$

$$a = 6$$

$$b = 5$$

$$c = ?$$

a	b
$c = \sqrt{11}$	$c = \sqrt{61}$

c	d
$c = \sqrt{86}$	$c = \sqrt{111}$