



Math worksheet on 'Pythagorean Equation from Values - Either Missing Length (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 'b' in this equation

$$4 + b^2 = 25$$

a	b	c	d
$b = \sqrt{21}$	$b = \sqrt{71}$	$b = \sqrt{46}$	$b = \sqrt{29}$

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

$$16 + b^2 = 64$$

a	$b = \sqrt{80}$	b	$b = \sqrt{48}$
c	$b = \sqrt{176}$	d	$b = \sqrt{144}$

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

$$a^2 + 9 = 25$$

a	$a = \sqrt{16}$	b	$a = \sqrt{41}$
c	$a = \sqrt{66}$		

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

$$a^2 + 16 = 64$$

a	$a = \sqrt{176}$	b	$a = \sqrt{112}$
c	$a = \sqrt{144}$	d	$a = \sqrt{48}$

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

$$a^2 + 25 = 81$$

a	$a = \sqrt{187}$	b	$a = \sqrt{56}$
c	$a = \sqrt{268}$	d	$a = \sqrt{218}$
e	$a = \sqrt{137}$		

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

$$a^2 + 4 = 81$$

a	$a = \sqrt{77}$	b	$a = \sqrt{166}$
c	$a = \sqrt{85}$	d	$a = \sqrt{158}$
e	$a = \sqrt{239}$		

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

$$4 + b^2 = 9$$

a	b	c	d
$b = \sqrt{5}$	$b = \sqrt{22}$	$b = \sqrt{13}$	$b = \sqrt{14}$