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

Learn online: app.mobius.academy/math/units/pythagoras_foundations/

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

$$a^2 + b^2 = c^2$$
$$a = 4$$
$$b = 3$$
$$c = ?$$

a $c = \sqrt{25}$ **b** $c = \sqrt{43}$ **c** $c = \sqrt{7}$

d $c = \sqrt{34}$

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

$$a^2 + b^2 = c^2$$
$$a = 3$$
$$b = 3$$
$$c = ?$$

a $c = \sqrt{0}$ **b** $c = \sqrt{18}$ **c** $c = \sqrt{36}$

3

$$a^2 + b^2 = c^2$$
$$a = 5$$
$$b = 2$$
$$c = ?$$

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

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

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

$$a^2 + b^2 = c^2$$
$$a = ?$$
$$b = 4$$
$$c = 9$$

a $a = \sqrt{227}$ **b** $a = \sqrt{97}$

c $a = \sqrt{146}$ **d** $a = \sqrt{65}$

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

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

a $c = \sqrt{0}$ **b** $c = \sqrt{8}$ **c** $c = \sqrt{16}$

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

$$a^2 + b^2 = c^2$$
$$a = 3$$
$$b = ?$$
$$c = 8$$

a $b = \sqrt{55}$ **b** $b = \sqrt{183}$

c $b = \sqrt{119}$

7 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 $c = \sqrt{66}$ **b** $c = \sqrt{41}$ **c** $c = \sqrt{9}$