Name

Pythagorean Equation from Variables - Either Missing Length (Radical)

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

$$a^2 + b^2 = c^2$$
$$a = ?$$
$$b = 3$$
$$c = 7$$

A $a = \sqrt{138}$

B $a = \sqrt{107}$

C $a = \sqrt{40}$

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

$$a^2 + b^2 = c^2$$
$$a = 4$$
$$b = ?$$
$$c = 5$$

A $b = \sqrt{91}$

B $b = \sqrt{9}$

C $b = \sqrt{59}$

D $b = \sqrt{41}$

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

$$a^2 + b^2 = c^2$$
$$a = 3$$
$$b = ?$$
$$c = 6$$

A $b = \sqrt{27}$

B $b = \sqrt{45}$

C $b = \sqrt{99}$

4 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 $c = \sqrt{22}$

B $c = \sqrt{31}$

C $c = \sqrt{13}$

D $c = \sqrt{5}$

5

$$a^2 + b^2 = c^2$$
$$a = 5$$
$$b = 3$$
$$c = ?$$

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

A $c = \sqrt{34}$

B $c = \sqrt{16}$

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

$$a^2 + b^2 = c^2$$
$$a = 5$$
$$b = ?$$
$$c = 9$$

A $b = \sqrt{218}$

B $b = \sqrt{56}$

C $b = \sqrt{137}$

D $b = \sqrt{106}$

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

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

A $c = \sqrt{100}$

B $c = \sqrt{0}$

C $c = \sqrt{50}$

D $c = \sqrt{75}$

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

$$a^2 + b^2 = c^2$$
$$a = ?$$
$$b = 6$$
$$c = 9$$

A $a = \sqrt{126}$

B $a = \sqrt{117}$

C $a = \sqrt{207}$

D $a = \sqrt{45}$