

# Lesson 8-10 → Irrational Right Triangle Legs

Review:

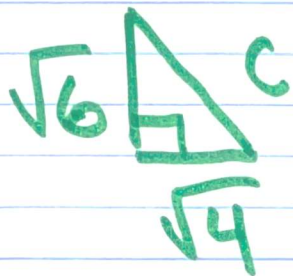
$$5^2 = 25$$

$$\sqrt{25} = 5$$

$$(\sqrt{25})^2 = 25$$

$$(\sqrt{10})^2 = 10$$

Select the value of  $c$ .



(i)  
 $\sqrt{52}$

(ii)  
 $10$

(iii)  
 $\sqrt{10}$

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

$$(\sqrt{6})^2 + (\sqrt{4})^2 = c^2$$

$$6 + 4 = c^2$$

$$10 = c^2$$

$$\sqrt{10} = c$$

(iii)  
 $\sqrt{10}$