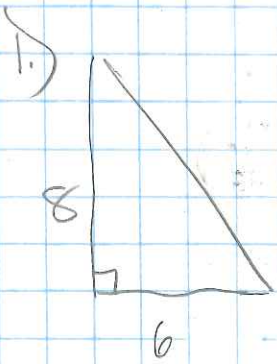


7.3 A odds

Key



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

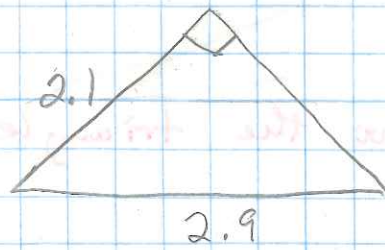
$$8^2 + 6^2 = c^2$$

$$64 + 36 = c^2$$

$$\sqrt{100} = \sqrt{c^2}$$

$$10 = c$$

3.)



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

$$2.1^2 + b^2 = 2.9^2$$

$$4.41 + b^2 = 8.41$$

$$-4.41 \quad -4.41$$

$$\sqrt{b^2} = \sqrt{4}$$

$$b = 2$$

6.) $a^2 + b^2 = c^2$

$$4.5^2 + b^2 = 7.5^2$$

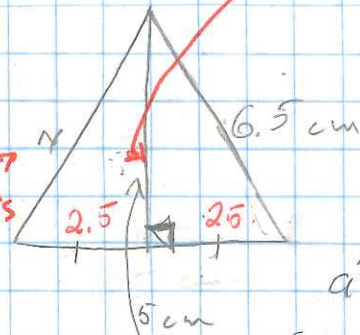
$$\begin{array}{r} 20.25 + b^2 = 56.25 \\ -20.25 \quad -20.25 \end{array}$$

$$\sqrt{b^2} = \sqrt{36}$$

$$b = 6$$

7.)

② Find this Second



① Find this first

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

$$(2.5)^2 + b^2 = (6.5)^2$$

$$6.25 + b^2 = 42.25$$

$$-6.25 \quad -6.25$$

$$\sqrt{b^2} = \sqrt{36}$$

$$b = 6$$

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

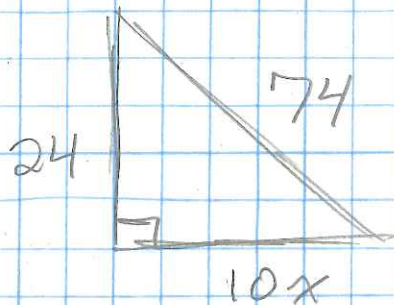
$$(2.5)^2 + 6^2 = c^2$$

$$6.25 + 36 = c^2$$

$$\sqrt{42.25} = \sqrt{c^2}$$

$$6.5 = c$$

#9) Draw the triangle to help you



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

$$24^2 + (10x)^2 = 74^2$$

$$\begin{array}{r} 576 + 100x^2 = 5476 \\ -576 76 \\ \hline + 100x^2 = 4900 \end{array}$$

$$\frac{100x^2}{100} = \frac{4900}{100}$$

$$\sqrt{x^2} = \sqrt{49}$$

$$x = 7$$

$$\begin{array}{l} (10x)^2 \\ \downarrow \\ 100x^2 \end{array}$$

square both the 10 and the x