

T: 3 s.145

$$\begin{aligned} \text{a) } x^2 + 6^2 &= 10^2 & \text{b) } 15^2 + x^2 &= 17^2 \\ x^2 &= 10^2 - 6^2 & x^2 &= 17^2 - 15^2 & \parallel \sqrt{} \\ x^2 &= 100 - 36 & x &= \sqrt{17^2 - 15^2} \\ x^2 &= 64 & \parallel \sqrt{} & x &= 8 \\ x &= \sqrt{64} \\ x &= 8 \end{aligned}$$

T: 4 s. 145

$$\begin{aligned} \text{a) } 12^2 + x^2 &= 15^2 & \text{b) } 65^2 + x^2 &= 97^2 \\ x^2 &= 15^2 - 12^2 & \parallel \sqrt{} & x^2 &= 97^2 - 65^2 & \parallel \sqrt{} \\ x &= \sqrt{15^2 - 12^2} & x &= \sqrt{97^2 - 65^2} \\ x &= 9 & x &= 72 \end{aligned}$$

T: 5 s. 145

$$\begin{aligned} (69\text{cm})^2 + x^2 &= (130\text{cm})^2 \\ x^2 &= (130\text{cm})^2 - (69\text{cm})^2 & \parallel \sqrt{} \\ x &= \sqrt{(130\text{cm})^2 - (69\text{cm})^2} \\ x &= 110,177\dots\text{cm} \approx 110\text{ cm} \end{aligned}$$

T: 6 s. 145

$$\begin{aligned} \text{a) } (7,0\text{cm})^2 + x^2 &= (11\text{cm})^2 & \text{b) } x^2 + (11\text{mm})^2 &= (14\text{mm})^2 \\ x^2 &= (11\text{cm})^2 - (7,0\text{cm})^2 & \parallel \sqrt{} & x^2 &= (14\text{mm})^2 - (11\text{mm})^2 & \parallel \sqrt{} \\ x &= \sqrt{(11\text{cm})^2 - (7,0\text{cm})^2} & x &= \sqrt{(14\text{mm})^2 - (11\text{mm})^2} \\ x &= 8,485\dots\text{cm} \approx 8,5\text{ cm} & x &= 8,660\dots\text{mm} \approx 8,7\text{mm} \end{aligned}$$

T: 9

a)

$$(6,0m)^2 + x^2 = (8,0m)^2$$

$$x^2 = (8,0m)^2 - (6,0m)^2 \quad \| \sqrt{\quad}$$

$$x = \sqrt{(8,0m)^2 - (6,0m)^2}$$

$$x = 5,29\dots m \approx 5,3m$$

b) $x^2 + (4,1m)^2 = (7,2m)^2$

$$x^2 = (7,2m)^2 - (4,1m)^2 \quad \| \sqrt{\quad}$$

$$x = \sqrt{(7,2m)^2 - (4,1m)^2}$$

$$x = 5,91\dots m \approx 5,9m$$

T: 13 s. 146

$$(16m)^2 + x^2 = (20m)^2$$

$$x^2 = (20m)^2 - (16m)^2 \quad \| \sqrt{\quad}$$

$$x = \sqrt{(20m)^2 - (16m)^2}$$

$$x = 12m$$

$$y^2 + (12m)^2 = (15m)^2$$

$$y^2 = (15m)^2 - (12m)^2 \quad \| \sqrt{\quad}$$

$$y = \sqrt{(15m)^2 - (12m)^2}$$

$$y = 9$$