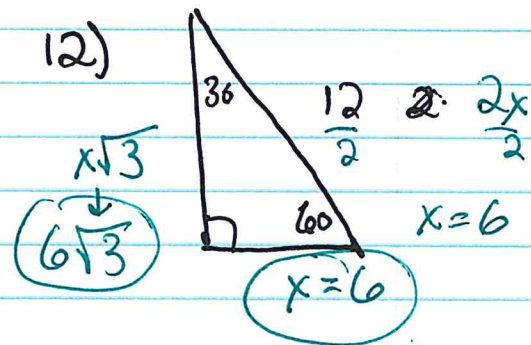
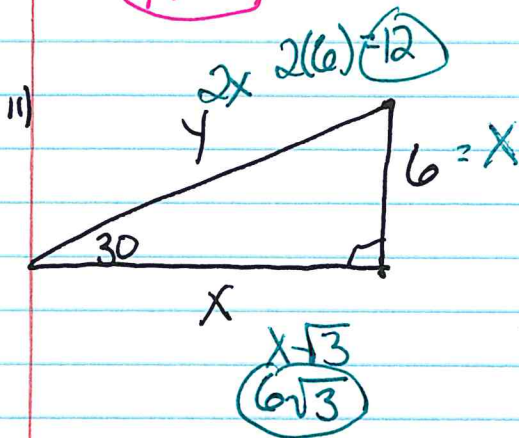
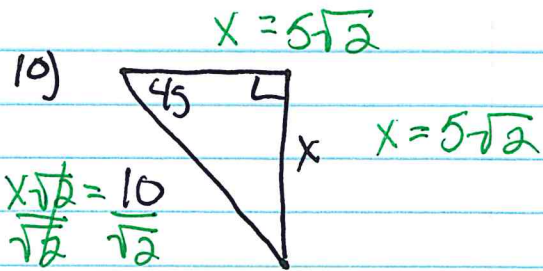
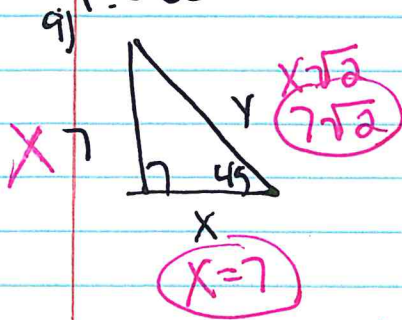


# Ch. 8 Test review

P.535



14)

$$\sin A = \frac{2\sqrt{19}}{20} = \frac{\sqrt{19}}{10}$$

$$\cos A = \frac{18}{20} = \frac{9}{10}$$

$$\tan A = \frac{2\sqrt{19}}{18} = \frac{\sqrt{19}}{9}$$

16)

$$\tan 36 = \frac{12}{x}$$

$$x = \frac{12}{\tan 36} = 16.5$$

15)

$$\sin A = \frac{16}{20} = \frac{4}{5}$$

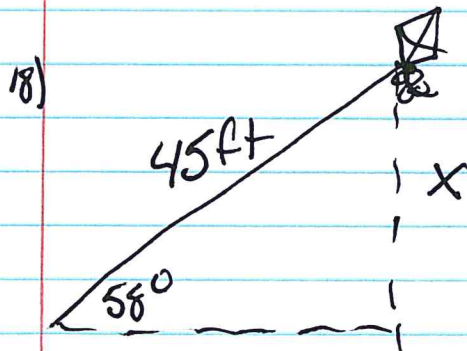
$$\cos A = \frac{12}{20} = \frac{3}{5}$$

$$\tan A = \frac{16}{12} = \frac{4}{3}$$

17)

$$\sin^{-1} \left( \frac{\tan 36}{\sin x} \right) = \frac{12}{20}$$

$$x = 33.1^\circ$$



$$45 \cdot \sin 58 = \frac{x}{45} \cdot 45$$

$$x = 38.2 \text{ ft}$$

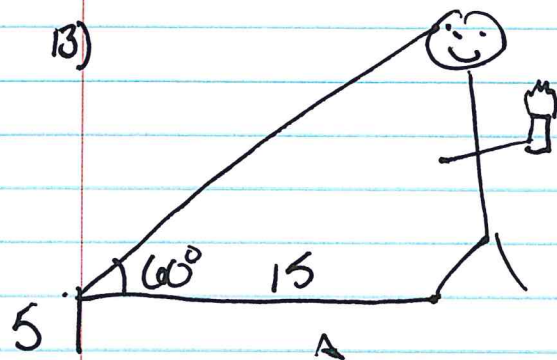
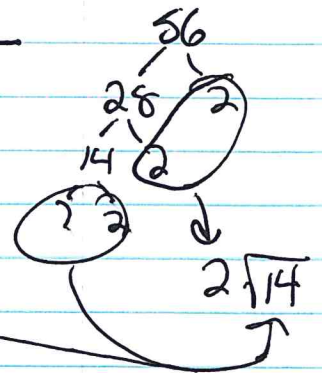
P.537

$$1) \begin{aligned} 7^2 + 11^2 &= x^2 \\ 49 + 121 &= x^2 \\ 170 &= x^2 \end{aligned}$$

$$\sqrt{170} = x$$

$$2) \begin{aligned} 15^2 &= x^2 + 13^2 \\ 225 &= x^2 + 169 \\ -169 & \quad -169 \\ \hline 156 &= x^2 \end{aligned}$$

$$2\sqrt{14} = x$$



$$x = 15 \cdot \tan 60 = \frac{x}{13} \cdot 15$$

$$26 = x$$

$$26 + 5 = 31 \text{ ft}$$

14)

$$\tan x = 6/7$$

$$\tan^{-1}(6/7) = 41^\circ$$

15)

$$\sin 40 = \frac{12}{x}$$

$$x = \frac{12}{\sin 40} = 18.7$$

16)

$$\cos 58 = \frac{x}{18}$$

$$9.5 = x$$

17)

$$\sin x = \frac{9}{19}$$

$$\sin^{-1} \frac{9}{19} = 28^\circ$$

18)

$$90^2 + 150^2 = \text{mag}^2$$

$$30600 = x^2$$

$$175 = x = \text{mag}$$

$$\tan^{-1}(150/90) = 59^\circ$$

19)

$$15^2 + 50^2 = x^2$$

$$2725 = x^2$$

$$52.2 \text{ mi} = \text{mag}$$

$$\tan^{-1}(\frac{50}{15}) = 73.3^\circ$$

