

Law of Sines and Law of Cosines Practice and Trig Ratio Recap Answers

1. $A = 150^\circ$; $a = 48.24$; $b = 16.76$

2. no triangle possible

3. $A = 35^\circ$; $C = 35^\circ$; $b = 6.55$

4. $A = 29.9^\circ$; $B = 86.2^\circ$; $C = 63.9^\circ$

5. $A = 15.76 \text{ un}^2$

6. $A = 9.80 \text{ un}^2$

7. $A = 217.08 \text{ un}^2$

8. $A = 8.36 \text{ un}^2$

9. $AC = 615.14 \text{ meters}$

10. $s = 1047.20 \text{ ft}$

11. 58.4°

Trig Ratio Recap Answers

$$\sin A = \frac{8}{17}$$

$$\sin B = \frac{15}{17}$$

$$\cos A = \frac{15}{17}$$

$$\cos B = \frac{8}{17}$$

$$\tan A = \frac{8}{15}$$

$$\tan B = \frac{15}{8}$$

1. 6.6

2. 11

3. 9.8

4. 11.5

Missing Angles

1. 41°

2. 37°

3. 16°

4. 28°

5. 53°

Practice

1. 15.6 m

2. 23.8 m

3. 11.1 m

4. 14.5°

5. 8.2 cm

6. 33.1°

7. 38.8 m

8. 10.6 cm

9. 13.7 cm

10. 1.5 m

11. 14.5°

12. 6.1 cm

13. a) 3.7 m

b) 1.5 m