

LESSON 18-1

Practice and Problem Solving: A/B

- $\frac{VW}{WX} = \frac{YZ}{ZX}$
- $\frac{WX}{VW}$
- X
- V
- 1
- 90
- 0.42
- 0.93
- 1.07
- $8.0^\circ; 8.0^\circ$
- $45^\circ; 45^\circ$
- $80.7^\circ; 80.7^\circ$
- 1.3333
- $\frac{0.75}{3.5}; 0.2143; 12^\circ$
- $\tan 27 = \frac{18}{CE}; \tan 27 = 0.51;$
 $CE = 35.3 \text{ m}$
- $\tan 3 = \frac{EF}{5280}; \tan 3 = 0.05;$
 $EF \approx 277 \text{ ft}$

LESSON 18-2

Practice and Problem Solving: A/B

- $3^2 + 5.2^2 = 6^2$. $9 + 27.04 = 36.04$.
 $\sqrt{36.04} \approx 6.00$. The side lengths satisfy the Pythagorean theorem, so the triangle is a right triangle.
- $\frac{5.2}{6} \approx 0.87$
- $\frac{3}{6} = 0.50$
- $\frac{3}{6} = 0.50$
- $\frac{5.2}{6} \approx 0.87$
- $m\angle 1 = \sin^{-1}0.87 = 60^\circ$
- $m\angle 2 = \sin^{-1}0.50 = 30^\circ$
- 12.46 m
- 19.70 mm
- 5.6 ft
- 9.5 cm
- 36.4 in.
- 10.0 in.