

CHECK ANSWERS: Ch.4

#56→explain

#57-59

1.73 3.5 5.2 5.86

6.06 6.39 52.25

corresponding sides have
equal ratios

$$\frac{1}{2} = \frac{3}{6} = 0.5 \quad \text{yes} \quad \text{sine}$$

$$\sin 31.5^\circ = \frac{\Delta y}{100} \quad \sin 23^\circ = \frac{a}{15}$$

$$\cos 37^\circ = \frac{b}{8}$$

#60, 62-65

2.66 3.14 3.8 5 7.5

8.04 9.40 10.58 23.25

2 2x x + 8

x - 7 2x - 5 3x - 2

$(3x - 4)^2$ 2x + 3 2x + 5

Sides opposite equal angles
must be the same length.

$$\tan \theta = \frac{a}{b} \quad \frac{\text{opposite leg}}{\text{adjacent leg}}$$

$$\sin \theta = \frac{b}{a} \quad \frac{\text{opposite leg}}{\text{hypotenuse}}$$

$$\cos \theta = \frac{a}{b} \quad \frac{\text{adjacent leg}}{\text{hypotenuse}}$$