

CHECK ANSWERS CH.6

#1-4, 6, 8-10

#1-3

No, angles not equal

No, only a 60° angle works

No, 3 is not half of 7

Yes, due to similarity AA~

Yes, due to AA~

Equilateral Δ , all angles = 60°

45° - 45° - 90° Δ or isosceles right Δ

$$a = 1 \quad a = 1 \quad b = \sqrt{2} \quad b = \sqrt{3}$$

$$m=30 \quad n=15\sqrt{3} \quad x=4\sqrt{3} \quad y=4$$

#4

$$3 \quad 4 \quad 5 \quad 8 \quad 8 \quad 20 \quad 20$$

$$3\sqrt{2} \quad 3\sqrt{2} \quad 3\sqrt{3} \quad 3\sqrt{3} \quad 4\sqrt{2}$$

$$5\sqrt{2} \quad 6\sqrt{3} \quad 10\sqrt{3} \quad 20\sqrt{2}$$

#6, 8-10

$$A = \frac{25\sqrt{3}}{2} \approx 21.7 \text{ ft}^2 \quad A = 1 \text{ m}^2$$

$$P = 2 + 2\sqrt{2} \approx 4.83m$$

$$P = 15 + 5\sqrt{3} \approx 23.66 \text{ ft}$$

$$\frac{1}{2} \quad 2 \quad 5 \quad 9$$

$$\sqrt{2} \quad 5\sqrt{2} \quad \sqrt{\frac{2d}{g}} \quad \sqrt{\frac{A}{\pi}}$$

$$-20a^3b \quad 2z^7 \quad 9x^8y^4$$