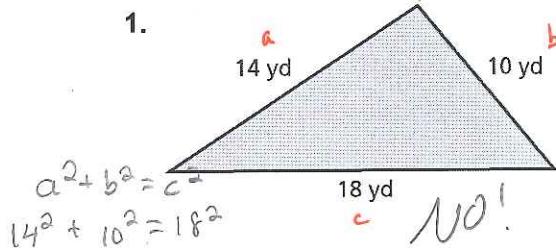


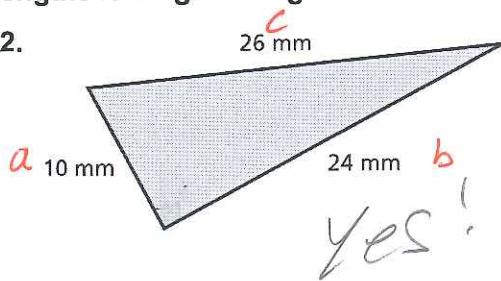
**7.5****Practice**  
For use after Lesson 7.5

Tell whether the triangle with the given side lengths is a right triangle.

1.



2.



3. 4 m, 4.2 m, 5.8 m

$$a^2 + b^2 = c^2$$
 $4^2 + 4.2^2 = 5.8^2$

$$16 + 17.64 = 33.64$$
 $33.64 = 33.64$

*Yes!*

4. 31 in., 35 in., 16 in.

$$a^2 + b^2 = c^2$$
 $31^2 + 16^2 = 35^2$

$$961 + 256 = 1225$$

$$1217 \neq 1225$$

*No!*

Find the distance between the two points.

$$5. (2, 1), (-3, 6)$$

$$\sqrt{(-3-2)^2 + (6-1)^2}$$

$$\sqrt{(-5)^2 + (5)^2}$$

$$\sqrt{25 + 25}$$

$$\sqrt{50}$$

$$7. (1, -7), (4, -5) \quad \sqrt{(4-1)^2 + (-5-(-7))^2}$$

$$\sqrt{3^2 + 2^2}$$

$$\sqrt{9+4}$$

$$(d = \sqrt{13})$$

$$6. (-6, -4), (2, 2)$$

$$d = \sqrt{(2-(-6))^2 + (2-(-4))^2}$$

$$d = \sqrt{8^2 + 6^2}$$

$$d = \sqrt{64 + 36}$$

$$d = \sqrt{100}$$

$$(d = 10)$$

$$8. (-9, 3), (-5, -8)$$

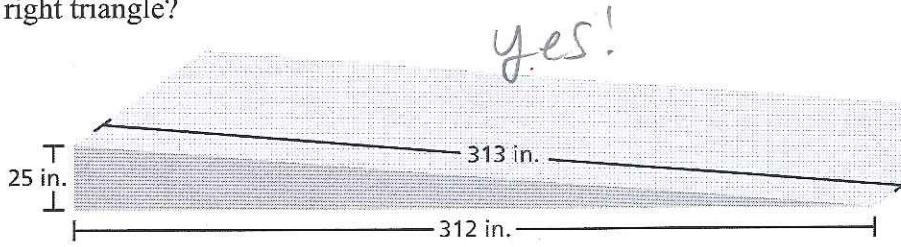
$$\sqrt{(-5-(-9))^2 + (-8-3)^2}$$

$$\sqrt{(4)^2 + (-11)^2}$$

$$\sqrt{16 + 121}$$

$$(\sqrt{137})$$

9. The cross-section of a wheelchair ramp is shown. Does the ramp form a right triangle?



$$a^2 + b^2 = c^2$$

$$25^2 + 312^2 = 313^2$$

$$625 + 97,344 = 97,969$$

$$97,969 = 97,969$$

*✓*