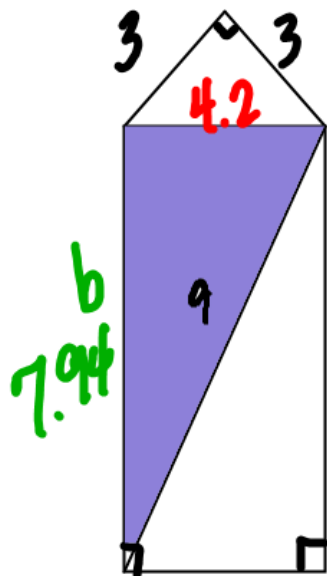


$$\Delta A = \frac{1}{2}bh$$



$$3^2 + 3^2 = c^2$$

$$9 + 9 = c^2$$

$$\sqrt{18} = \sqrt{c^2}$$

$$4.2 \approx c$$

$$4.2^2 + b^2 = 9^2$$

$$18 + b^2 = 81$$

$$\sqrt{b^2} = \sqrt{63}$$

$$b = 7.94$$

$$63.36$$

$$A = \frac{1}{2}bh$$

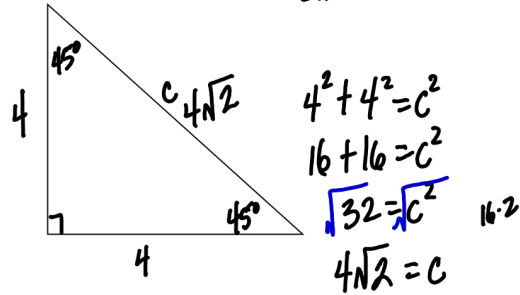
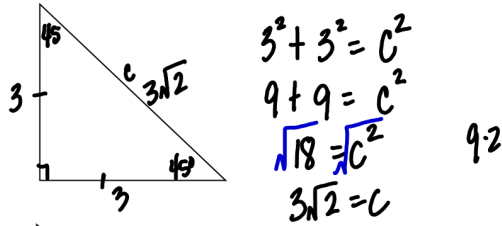
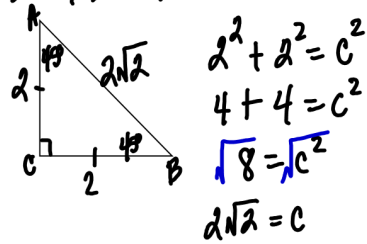
$$A = \frac{1}{2}(4.2)(7.94)$$

$$A = 2.1(7.94)$$

$$A = 16.67$$

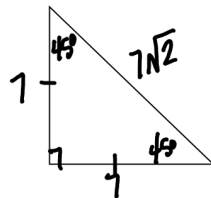
55 Special Right Triangles

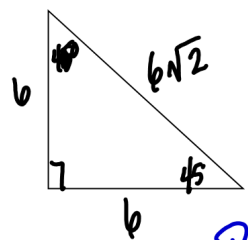
45-45-90



45-45-90 Isosceles Right Triangle

legs are congruent
 hypotenuse = leg $\sqrt{2}$





Pythagorean Theorem

$$x^2 + x^2 = 5^2$$

$$\frac{2x^2}{2} = \frac{25}{2}$$

$$\sqrt{x^2} = \sqrt{\frac{25}{2}}$$

$$x = \frac{\sqrt{25}}{\sqrt{2}}$$

$$x = \frac{5}{\sqrt{2}}$$

$$\frac{\sqrt{2} \cdot \sqrt{2}}{\sqrt{4} \cdot 2}$$

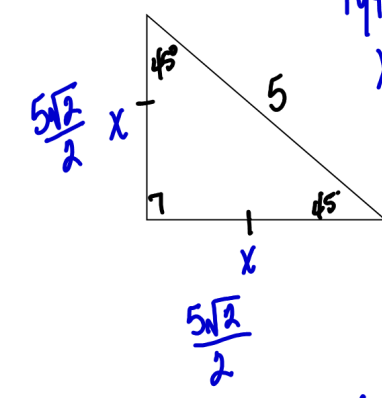
Rationalize the denominator

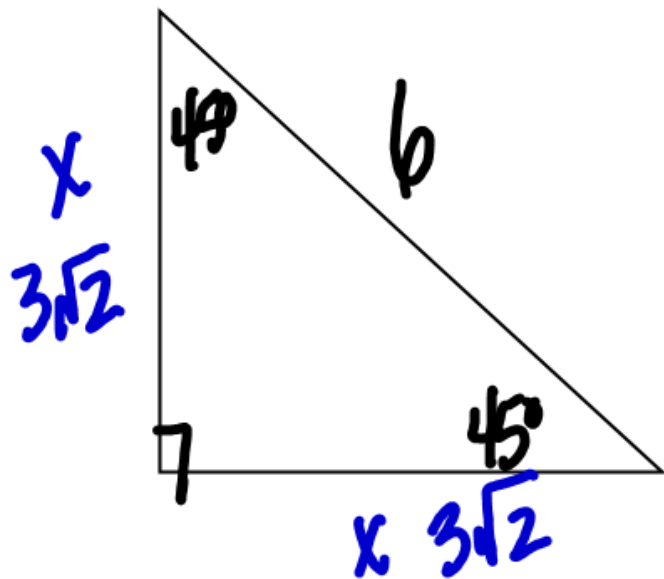
$$\frac{\sqrt{2}}{\sqrt{2}} = 1$$

$$\frac{5}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$$

$$\frac{5\sqrt{2}}{2}$$

$$x = \frac{5\sqrt{2}}{2}$$





$$x^2 + x^2 = 6^2$$

$$2x^2 = 36$$

$$\sqrt{x^2} = \sqrt{18} \quad 9.2$$

$$\frac{6\sqrt{2}}{2}$$

Reduce

$$\textcircled{3\sqrt{2}}$$

$$x = 3\sqrt{2}$$

p 336

14-17 All

22, 25

