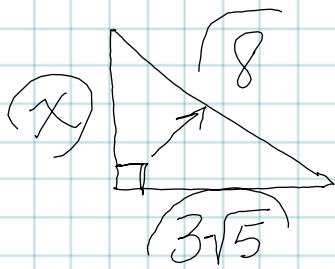


* Find the missing length
in the right triangle.



$$x^2 + (3\sqrt{5})^2 = 8^2$$

$$x^2 + \underbrace{3\sqrt{5} \cdot 3\sqrt{5}} = 64$$

$$\downarrow \quad \underbrace{3 \cdot 3 \cdot \sqrt{5} \cdot \sqrt{5}} \quad \downarrow$$
$$\quad \quad \quad \underbrace{9(5)}$$

$$x^2 + 45 = \overset{5}{\cancel{64}}$$
$$\quad \quad - 45 \quad - 45$$

$$x^2 = 19$$

$$x = \pm \sqrt{19}$$

$$x = \sqrt{19}$$