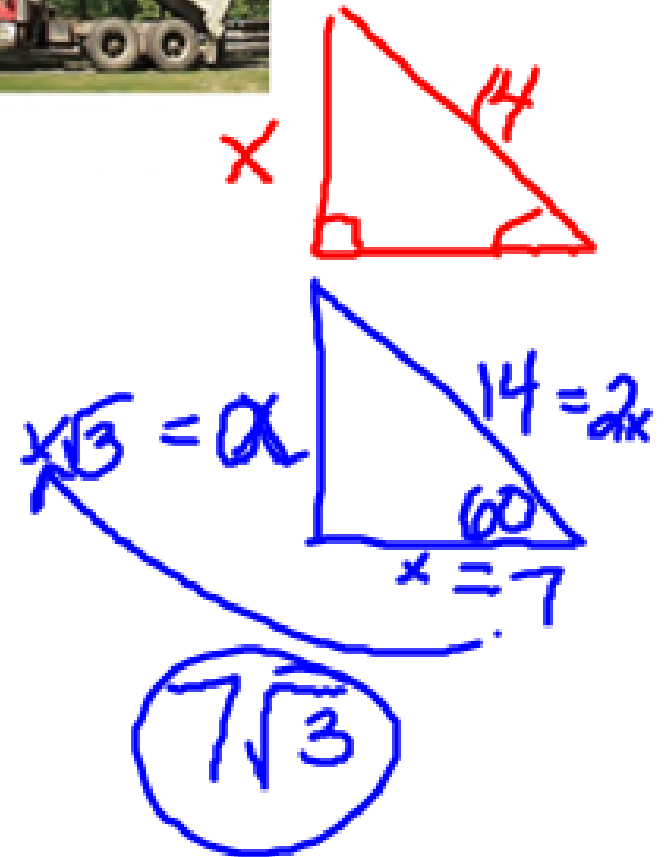
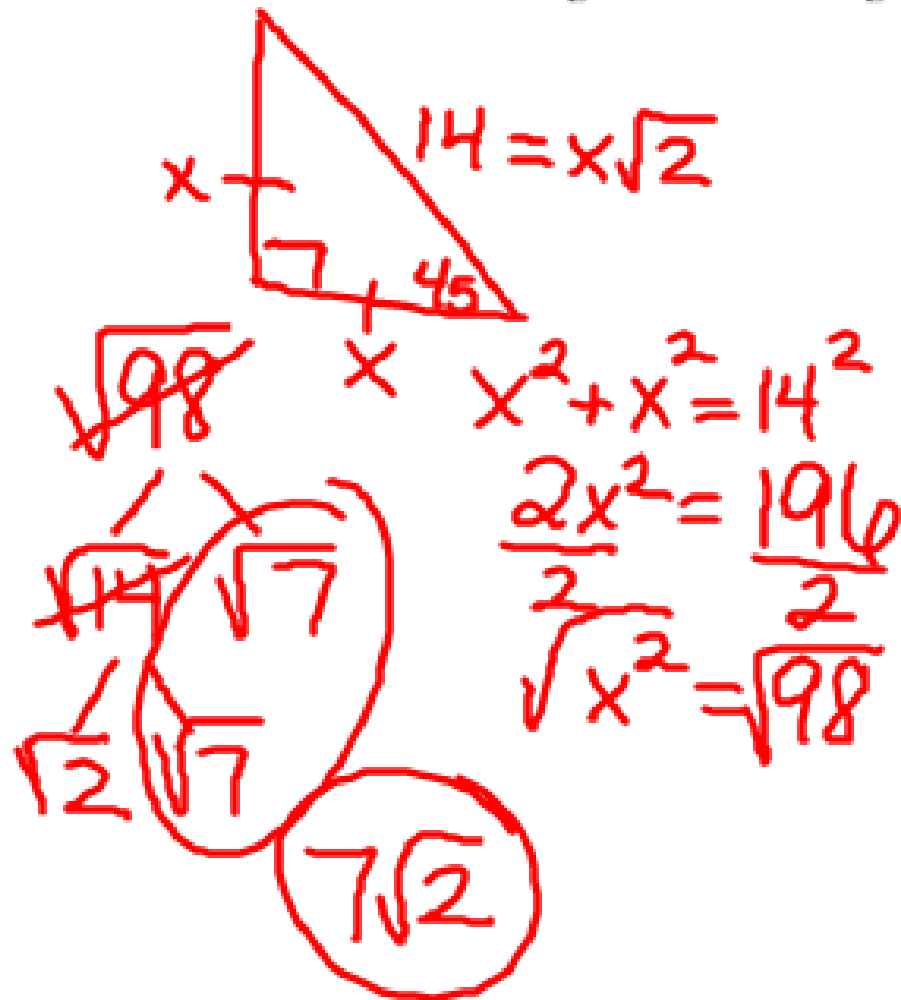
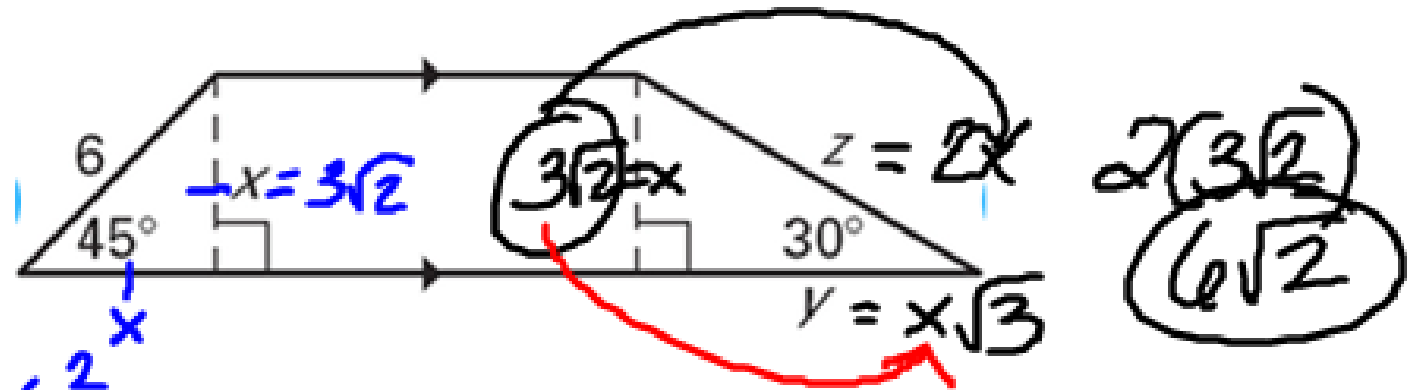


Dump Truck The body of a dump truck is raised to empty a load of sand. How high is the 14 foot body from the frame when it is tipped upward at the given angle?

- a. 45° angle b. 60° angle



You try: Find the values of x , y , and z .



$$\begin{aligned}x^2 + x^2 &= 6^2 \\2x^2 &= 36 \\\sqrt{x^2} &= \sqrt{18} \\&= \sqrt{9} \cdot \sqrt{2} \\&= 3\sqrt{2}\end{aligned}$$

$$\begin{aligned}&= 3\sqrt{2}(\sqrt{3}) \\&= 3\sqrt{6}\end{aligned}$$