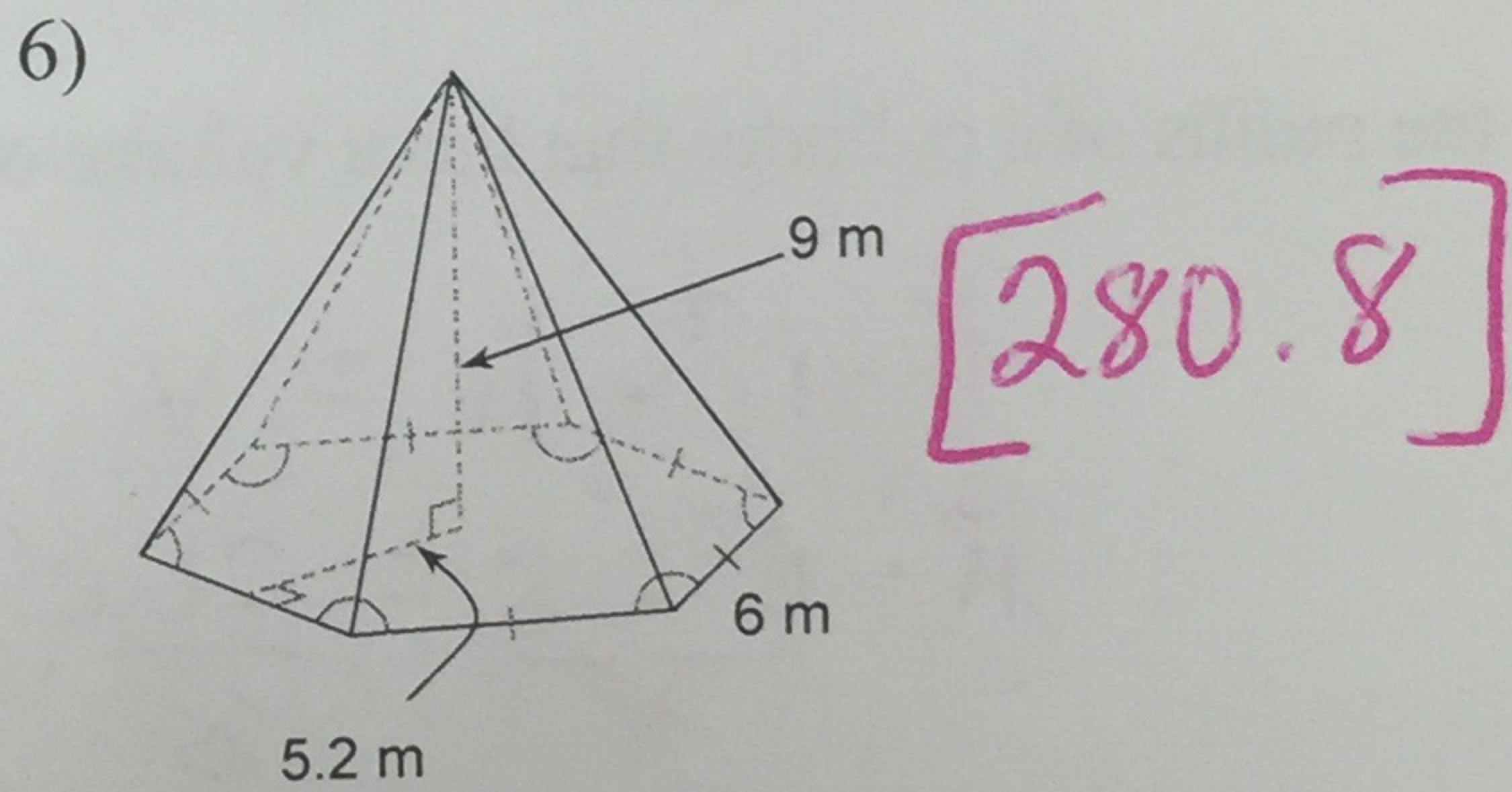
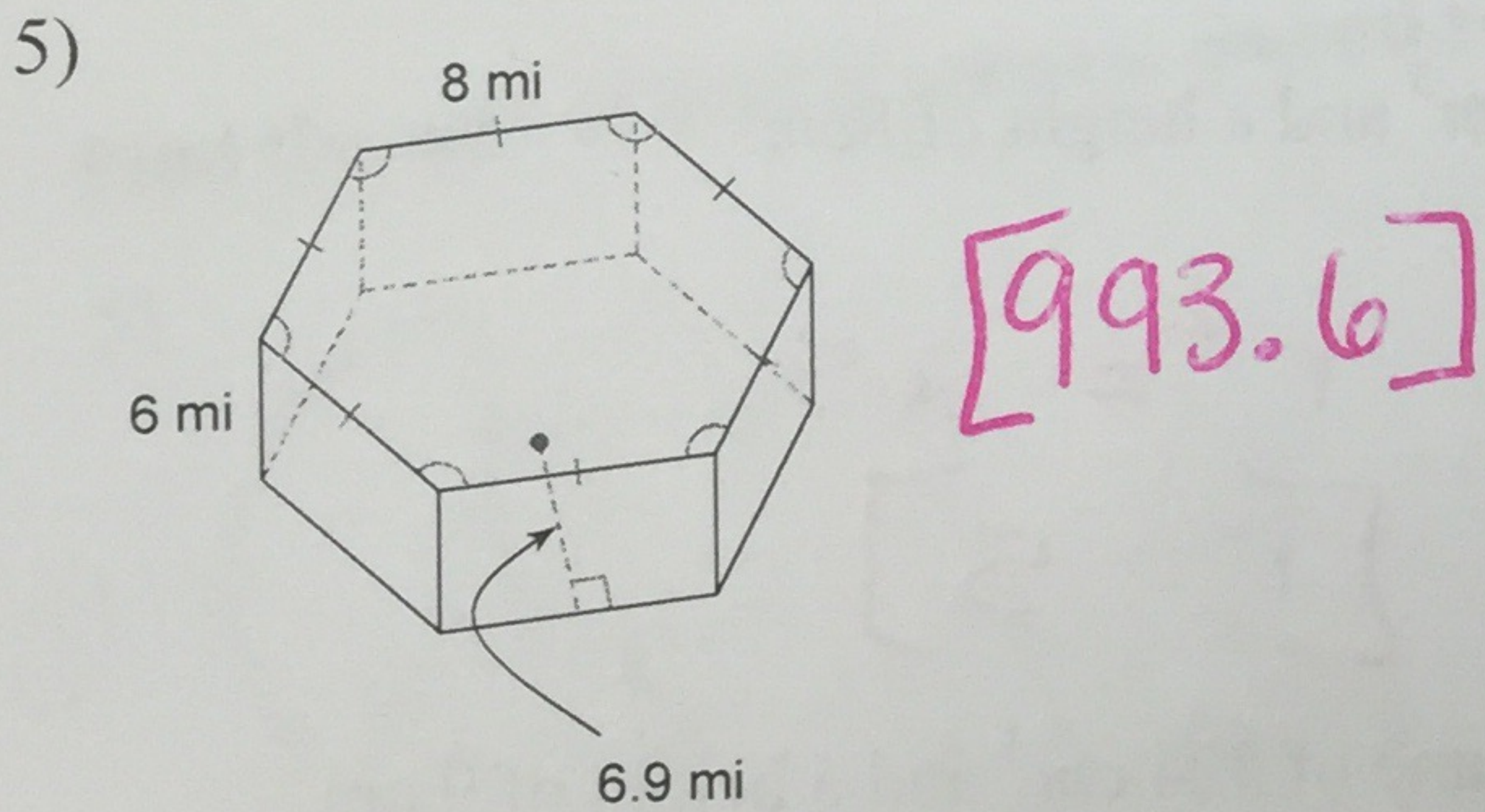
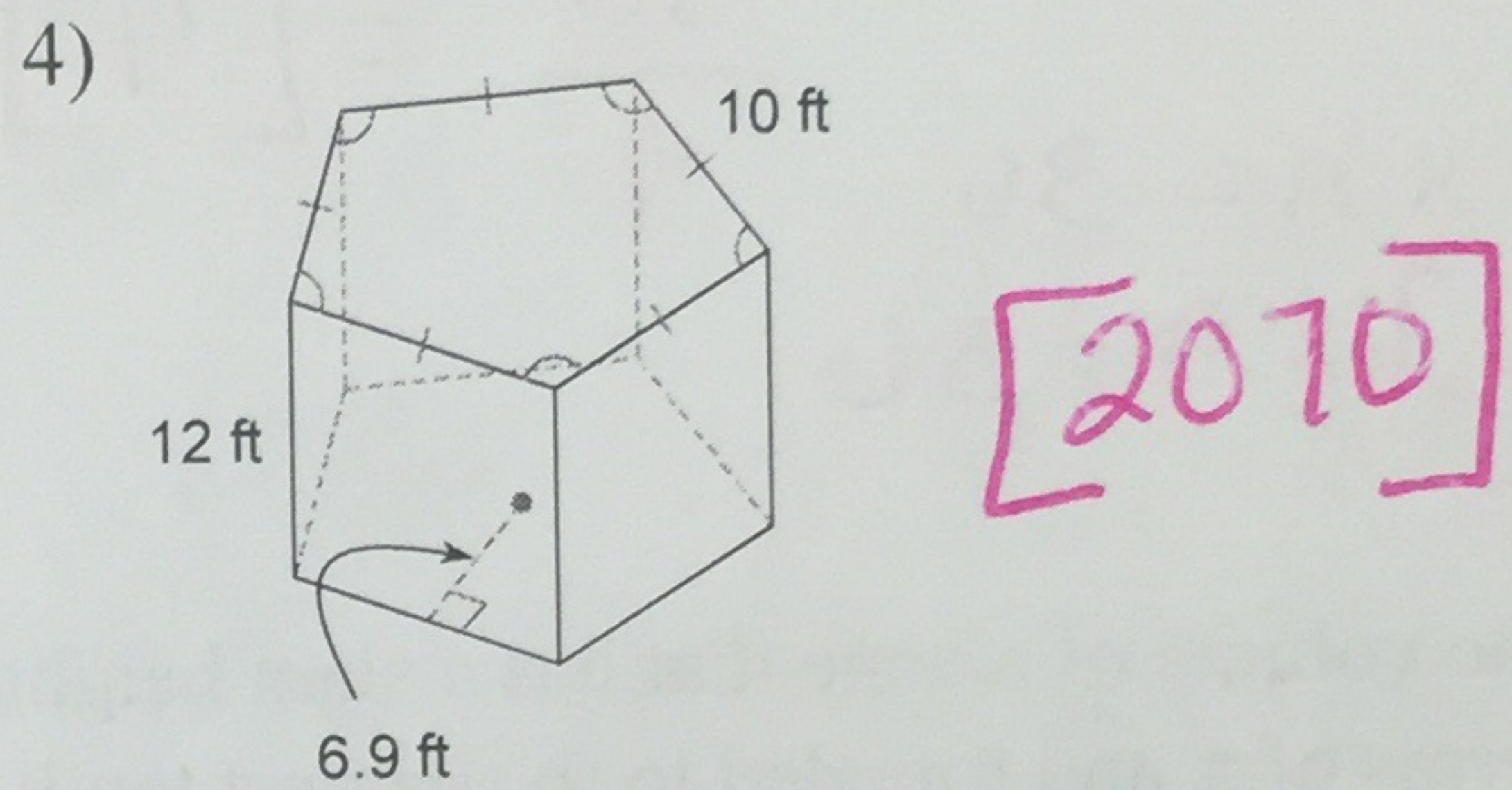
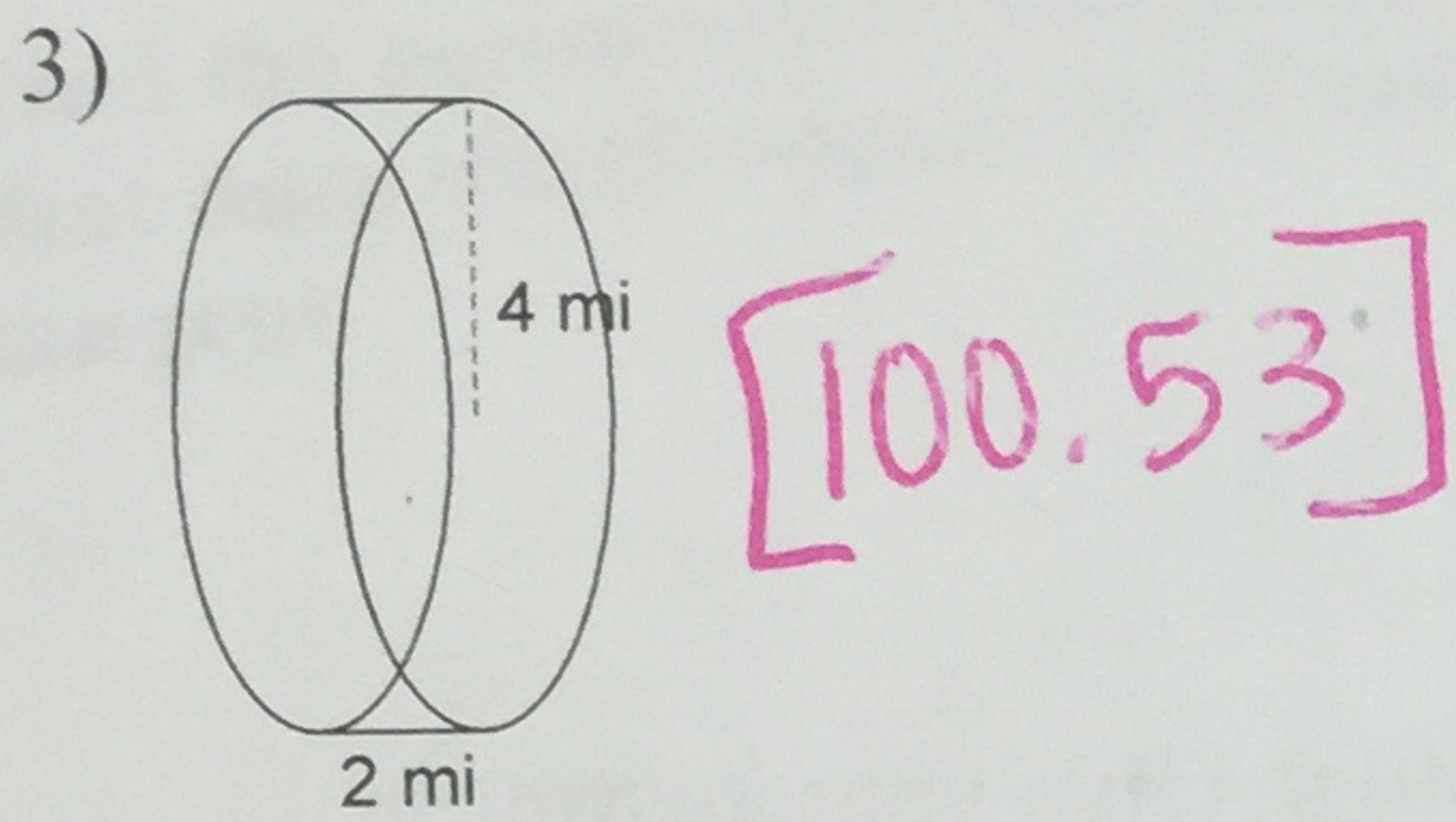
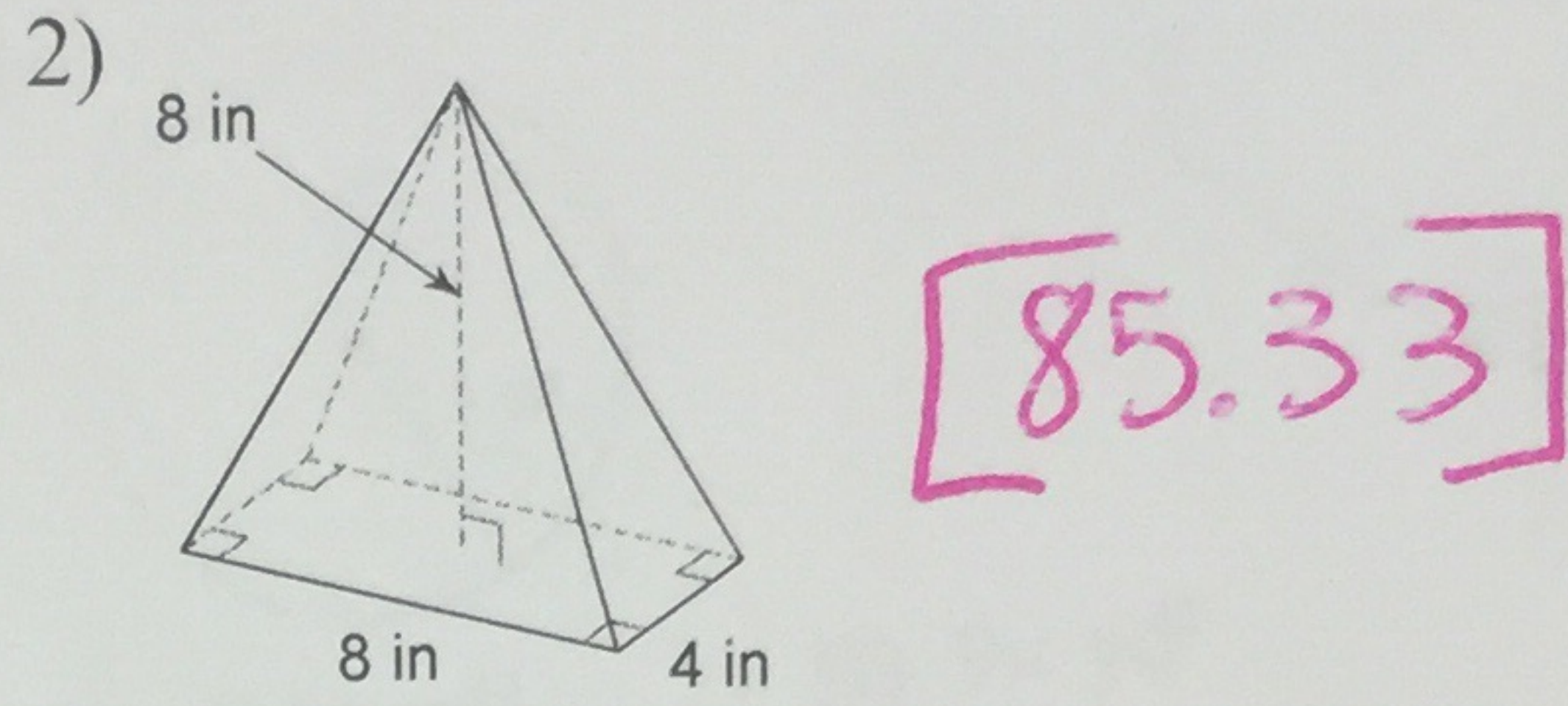
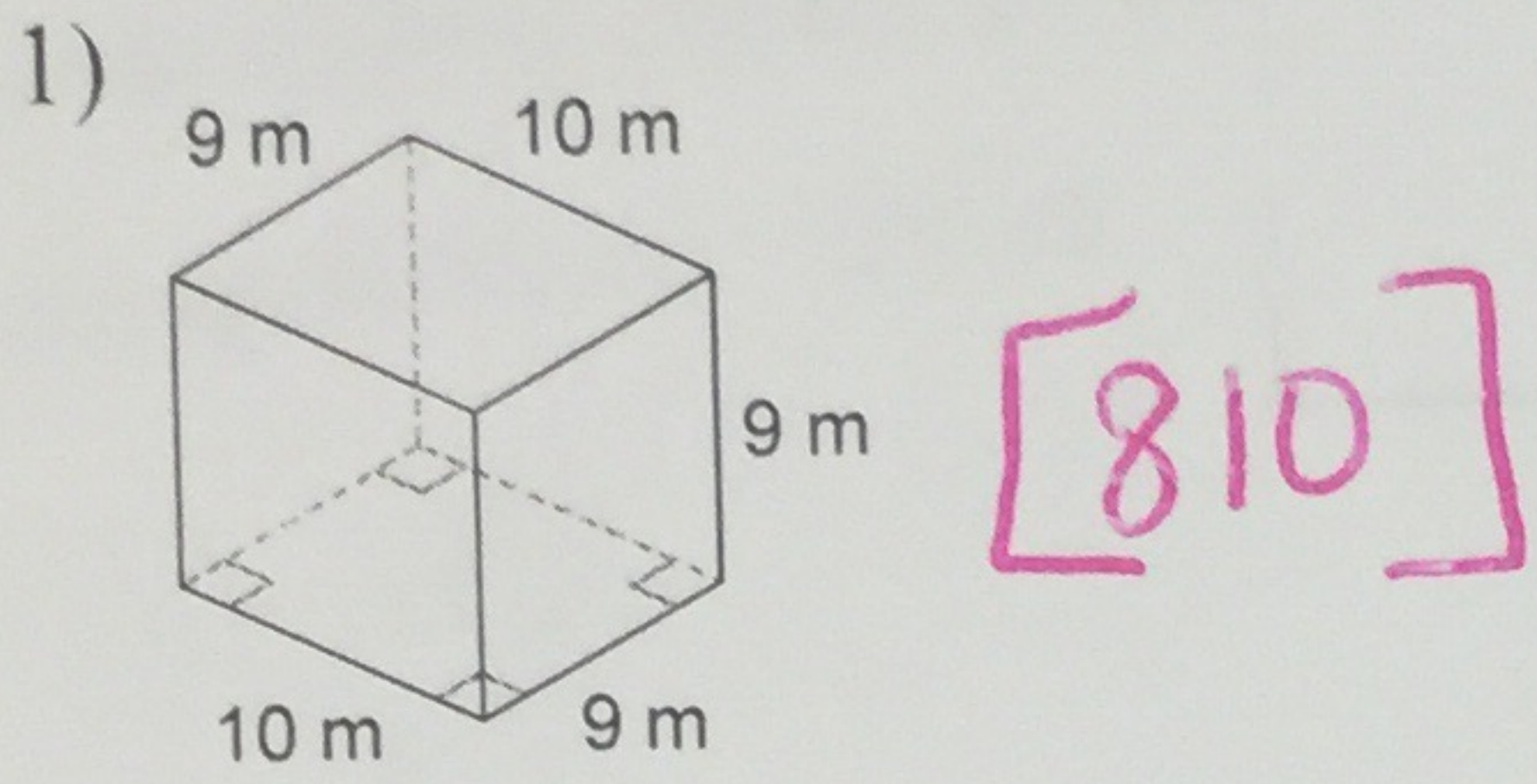


Section 29.1-29.3 Extra Review

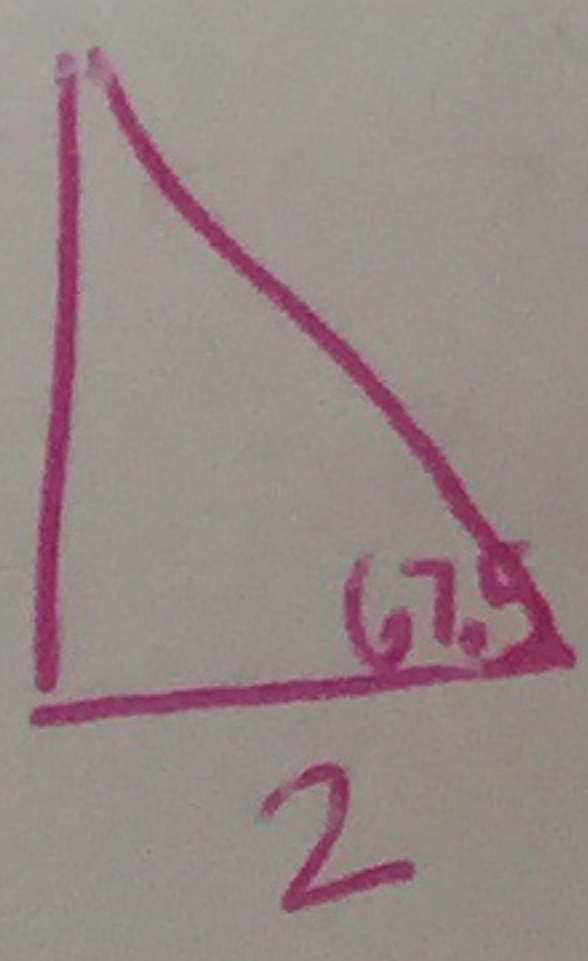
Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.



Find the area of each figure. Round your answer to the nearest tenth.

7) A regular octagon with a perimeter of 32 ft.

Oct-8 sides  
1 angle = 135

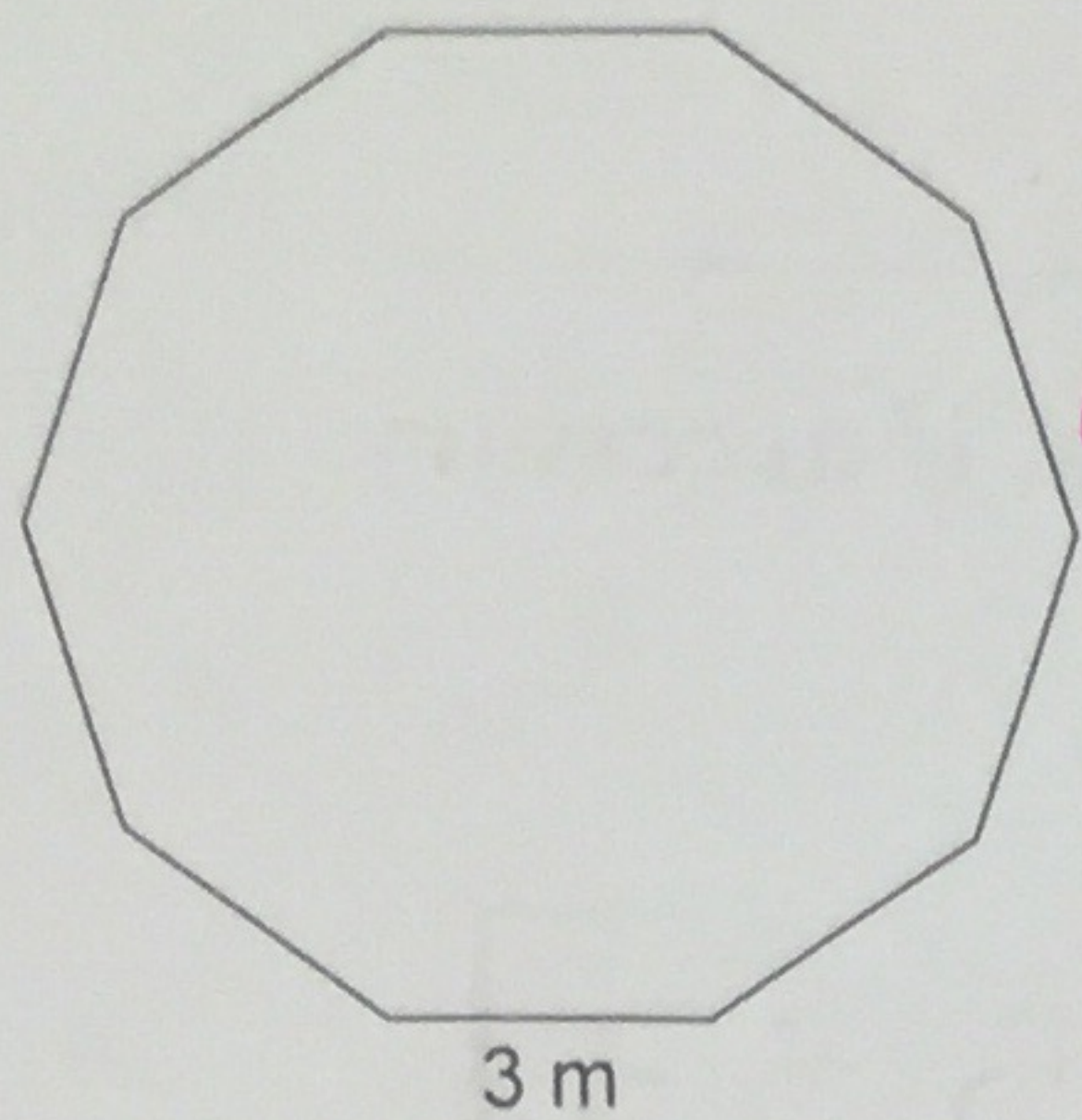


$\frac{32}{8} = 4$   
 $\tan(67.5) = \frac{x}{2}$   
[77.3]

8) A regular 7-gon 3 in on each side.

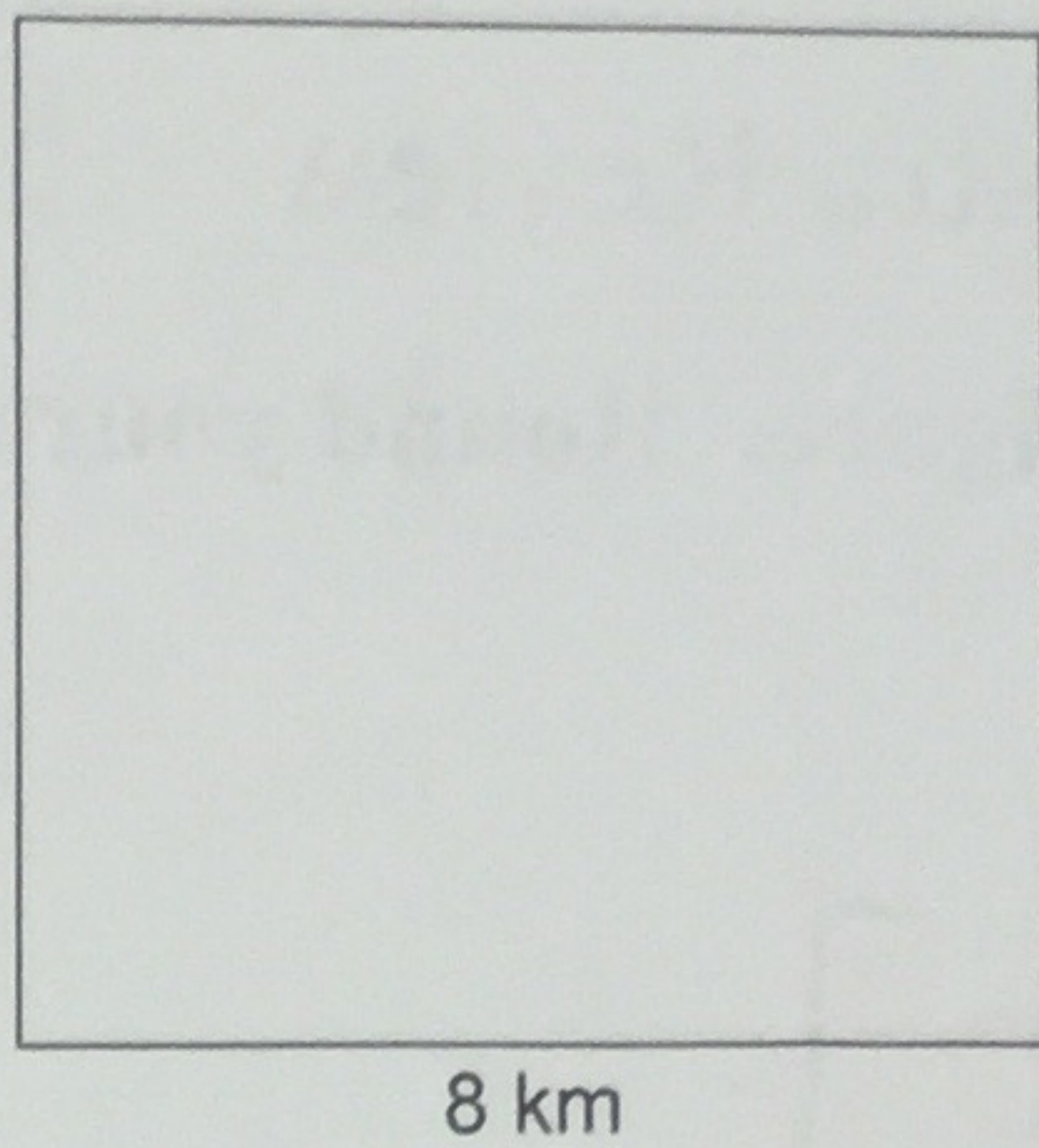
[32.7]

9)



[69.2]

10)



[64]

- 11) A rectangular prism has a volume of  $36 \text{ inches}^3$ . Find the area of the base if the height of the prism is 9 inches?

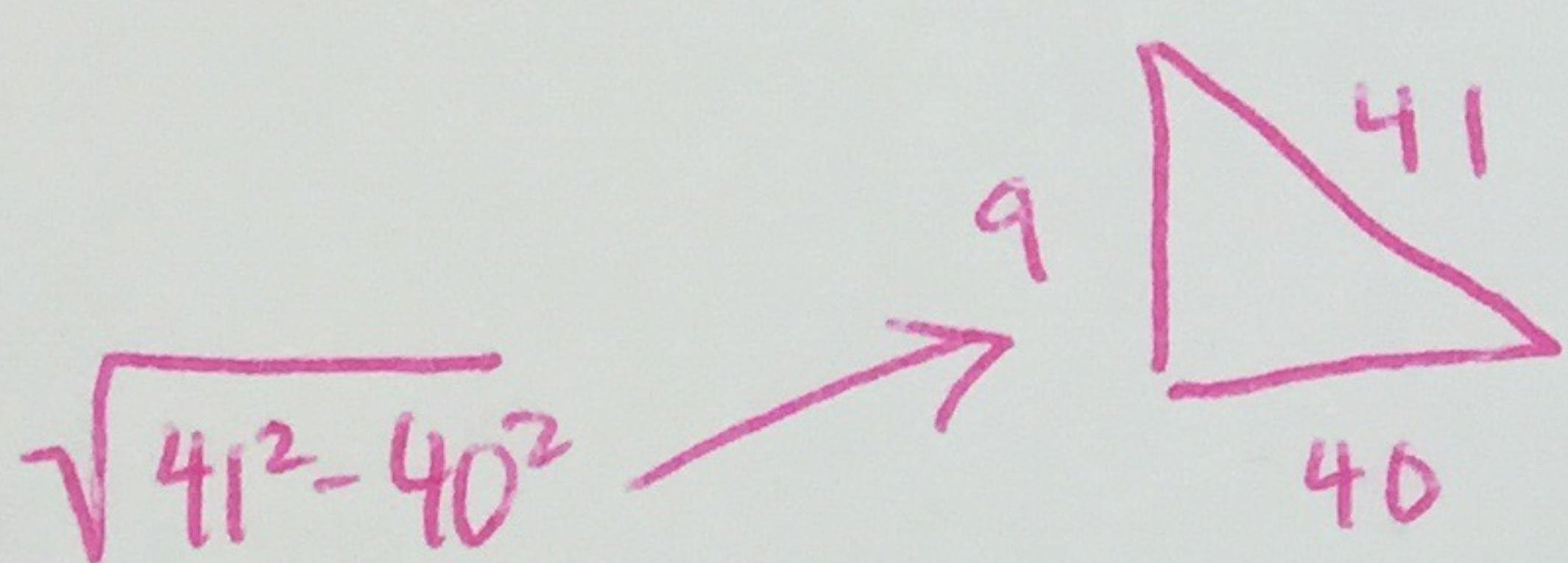
$$L \times w \times h = 36$$

$$\frac{36}{9} = [4]$$

$$[L \times w] \times 9 = 36$$

base

- 12) Find the volume of a cone that has a slant height of 41 ft and a radius 40 ft. Give your answer in both terms of  $\pi$  and rounded to the nearest tenth.



$$\frac{\pi \cdot 40^2 \cdot 9}{3} = 4800\pi \text{ or } 15079.65$$

- 13) Find the radius of a cylinder that has a volume of  $200\pi \text{ cm}^3$  and a height of 8 cm.

$$\pi \cdot r^2 \cdot h = v$$

$$\frac{\pi \cdot r^2 \cdot 8}{8} = \frac{200\pi}{8}$$

$$r^2 = 25$$

$$[r = 5]$$

- 14) Find the length and width of a square pyramid with a volume of  $324 \text{ cm}^3$  and a height of 9 cm.

length & width are the same

$$\frac{[L \times w] \times h}{3} = v$$

$$[L \times w] \times 9 = 324$$

$$[L \times w] \times 9 = 324$$

$$L \times w = 108$$

$$\hookrightarrow x^2 = 108 = [6\sqrt{3}]$$

- 15) The radius and height of a cylinder are multiplied by  $\frac{3}{5}$ . Describe the effect on the volume.

cube both parts!

$$\frac{3^3}{5^3} = \frac{27}{125}$$

the volume is decreased by  $\frac{27}{125}$ .