

Mathematics 10

Unit 1 (Measurement)

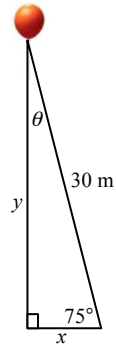
Chapter 3 (Right Triangle Trigonometry)

Section 3.2 (The Sine and Cosine Ratios)

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Question 8

8. a)



b)

$$\sin 75^\circ = \frac{y}{30}$$

$$y = 30 \sin 75^\circ$$

$$= 28.97777479\dots$$

The height of the balloon is approximately 29 m.