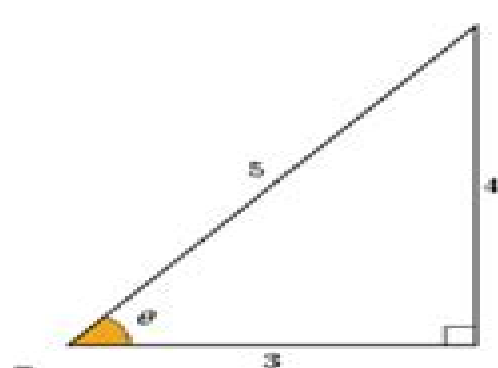


TRIGONOMETRY AND VOLUMES SAMPLE EXAM

1. MULTIPLE CHOICE QUESTIONS (5 questions. One of them requiring explanation)



(1 mark)

What is $\sin \theta$?

a) $\frac{3}{4}$

b) $\frac{4}{3}$

c) $\frac{3}{5}$

d) $\frac{4}{5}$



(1 mark)

Approximately how tall is the building?

a) 24 m

b) 26 m

c) 28 m

d) 30 m

Federico is 8000 meters away (measuring at ground level) from the peak of a mountain 2000 meters tall.



(1 mark)

At approximately what angle, in degrees, should Federico shine the laser?

a) 11

b) 12

c) 13

d) 14

He wants to shine a laser so that it just touches the peak.

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M Woodhall



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