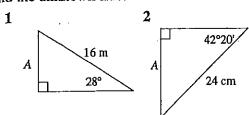
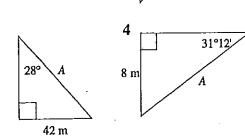
Trigonomet

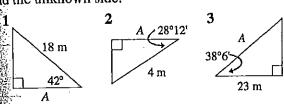
stice

Skill 8.1 Using sin to fine Line lengths Find the unknown side:

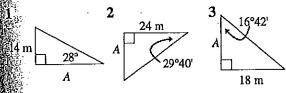




Skill 8.2 Using cos to find side lengths Find the unknown side:

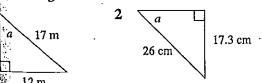


Kill 8.3 Using tan to find side lengths



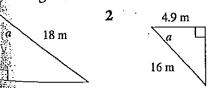
Skill 8.4 Using sin to find an angle

ind the unknown angles, expressing the answer in commendate the commendate in the co



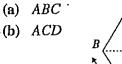
8.5 Using cos to find an angle

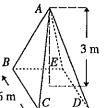
delibe unknown angles, expressing the answer in



Skill 8.9 Practical application in three dimensions

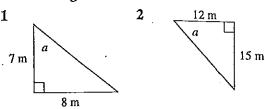
1 Find the angle that the following planes make with the base in this rectangular-based pyramid.





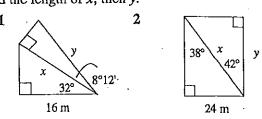
Skill 8.6 Using tan to find an angle

Find the unknown angles, expressing the answer decimal and degree/min form:



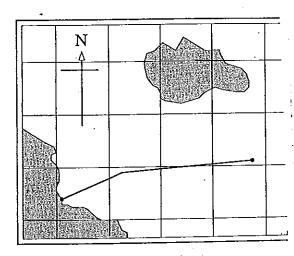
Skill 8.7 Composite figures

Find the length of x, then y:



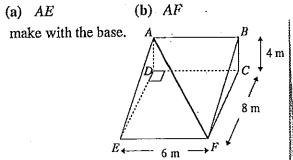
Skill 8.8 Practical applications in two dimensions

1 A yacht sails on the bearing E23°N for 10 kr and then changes to sail on E5°N for a furthe 20 km.



How far:

- (a) east (b) north is the yacht from the starting position?
- 2 A bushwalker standing 92 m from the base of a cliff measures the angle of elevation to the top of it at 33.2°. How tall is the cliff?
 - 2 In this wedge find the angle that the lines



Trigonometry

Skill 8.1

1 7.51 m 2 16.16 cm 3 89.46 m 4 15.44 m

Skill 8.2

1 13.38 m 2 3.53 m 3 29.23 m

Skill 8.3

1 26.33 m 2 13.67 m 3 60.0 m

Skill 8.4

1 44.9°, 44°54' 2 41.7°, 41°43'

Skill 8.5

1 70.5°, 70°31' 2 72.17°, 72°10'

Skill 8.6

1 48.8°, 48°49' 2 51.3°, 51°20'

Skill 8.7

1 x = 18.87 m, y = 19.06 m

2 x = 38.98 m, y = 28.97 m

Skill 8.8

1 (a) 29.13 km

(b) 5.65 km

2 60.2 m

Skill 8.9

1 (a) 56.3°

(b) 45°

2 (a) 26.6°

(b) 21.8°