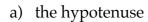
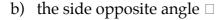
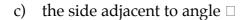


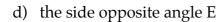
Year 9 Mathematics Trigonometry Practice Test 2

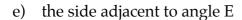




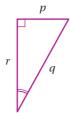


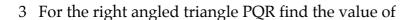




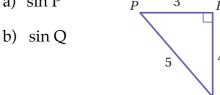




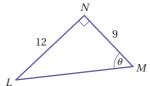




a) sin P

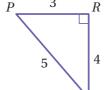


4 Use Pythagoras' Theorem to find the value of the unknown side in \triangle LMN and then find the value of sin \square

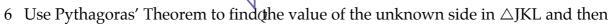


5 For the right angled triangle PQR find the value of

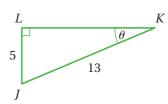
a) cos P



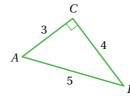
b) cos Q



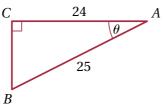
find the value of cos □



- 7 For the right angled triangle ABC find the value of
 - a) tan A
 - b) tan B



8 Use Pythagoras' Theorem to find the value of the unknown side in \triangle JKL and then find the value of tan \square



- 9 Find
 - a) $\sin 59^{\circ}$

b) cos 23°

c) tan 60°

- 10 Find
 - a) 8 sin 30°

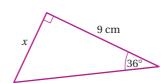
- b) 2.5 cos 39°
- c) 6.83 tan 37°

- 11 Find
 - a) $\frac{11}{\sin 54^\circ}$

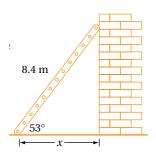
b) $\frac{2.36}{\cos 31^{\circ}}$

c) $\frac{12.67}{\tan 32^{\circ}}$

- 12 Given that $\sin \Box = 0.5$ find \Box
- 13 If $\cos \Box = \frac{3}{4}$ what is the value of \Box to the nearest degree?
- 14 Given that $\tan \Box = \frac{5}{9}$ find \Box to the nearest degree
- 15 If $\sin \Box = \frac{7}{13}$ what is the value of \Box to the nearest degree
- 16 Find the value of x to one decimal place

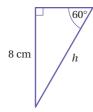


18 A ladder 8.4 m long leans against a wall. How far is its foot from the wall, if it makes an angle of 53° with the horizontal ground? Answer in metres to 2 decimal places.

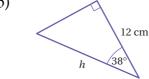


19 Find the value of h correct to 1 decimal place

a)



b)



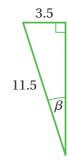
20 Find the length of the diagonal of a rectangle, *D* given that the length of the rectangle is 10.7 cm and the diagonal makes an angle of 39° with the longer side. Answer correct to 1 decimal place.

21 Find the value of □ correct to the nearest degree

a)



b)



22 A 15 m ladder standing on level ground reaches 11 m up a vertical wall. Find the angle that the ladder makes with the ground. (Give your answer to the nearest degree.)

23 *ABCD* is a rectangle with AC = 25 cm and AD = 14 cm. Find $\angle DAC$ correct to the nearest degree.

24 The angle of elevation of the top of a tower AB is 58° from a point C on the ground 200 metres from the middle of the base of the tower. Calculate the height of the tower to the nearest metre.

25 From the top of a building 90 m tall, the angle of depression to a car parked on the ground is 48°. Find the distance of the car from the base of the building. Write your answer correct to 2 decimal places.