

To be completed on loose-leaf paper.

Due date: _____

- ① (a) Write the following correct to two decimal places.
(i) 4.218 (ii) 5.797

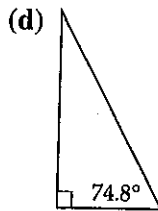
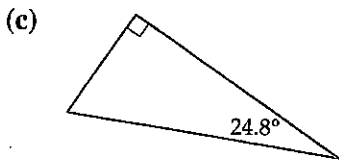
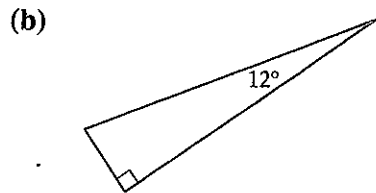
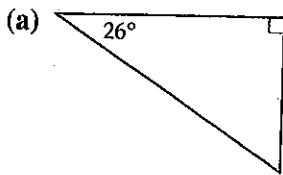
- (b) Write the following correct to four decimal places.
(i) 0.745619 (ii) 0.462183

- ② Solve these equations to find x . Where necessary, express your answer as a decimal correct to four decimal places.

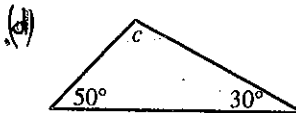
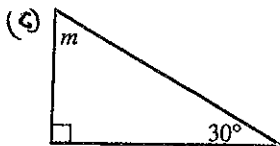
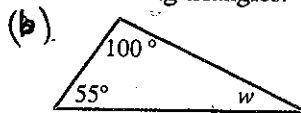
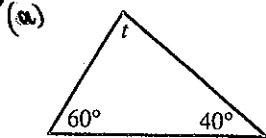
(a) $3x = 24.5$ (b) $\frac{x}{20} = 0.7825$

(c) $2.30702 = \frac{x}{12}$ (d) $0.345 = \frac{16}{x}$

- ③ Copy each right-angled triangle shown below and label the hypotenuse, the opposite side and the adjacent side for the angle given.



- ④ Find the value of the pronumeral in each of the following triangles.

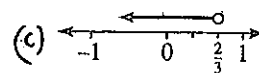
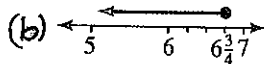
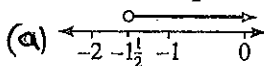


- ⑤ Use a calculator to find each of the following correct to three decimal places.

(a) $\cos 37^\circ$ (b) $\sin 40^\circ$

(c) $\tan 67^\circ$ (d) $\sin 23.4^\circ$

- ⑥ Describe the directed numbers graphed on each number line. Use number sentences such as $x > -2\frac{1}{2}$, $x \leq 4.8$ and so on.



Solve the following equations

- ⑦ (a) $3m + 5 = 14$ (b) $5(k + 6) = -15$
(c) $4t - 3 = -15$ (d) $40 = -5(p + 6)$

Answers:

① (a) (i) 4.22 (ii) 5.80	(b) (i) 0.7456 (ii) 0.4622	④ (a) 80° (b) 25° (c) 60° (d) 100°	⑥ (a) $x > -1\frac{1}{2}$ (b) $x \leq 6\frac{3}{4}$ (c) $x < \frac{2}{3}$	⑦ (a) 3 (b) -9 (c) -3 (d) -14
② (a) 8.1667 (b) 15.6500	(c) 27.6842 (d) 5.52	⑤ (a) 0.799 (b) 0.643 (c) 2.356 (d) 0.397		