



SPTA

N5 Homework

Mixed 8



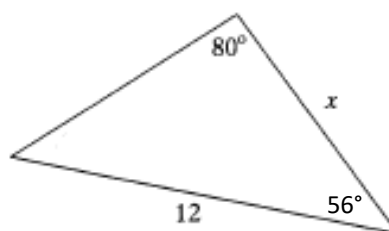
Show all working – Calculator ONLY required for Qu 2 & 3.

Marks

1. Simplify fully: $\frac{2x^2-8}{2x^2+x-6}$

(3)

2. Find the length of x .



(4)

3. Entrance fees to a show for 3 adults and 2 children totals £61.35.

For 2 adults and 5 children the cost is £69.50.

What is the cost of each type of ticket?

(5)

4. Solve: a) $3(2x-5)+7 \geq 2(5x+4)$ b) $\frac{5}{3}x + \frac{7}{4} = \frac{3x-1}{2}$

(6)

5. A function is defined as $h(a) = 33 - 6a^2$

a) Evaluate $h(-3)$.

b) Given that $h(t) = 9$, find the value of t .

(4)

6. Make x the subject of: $R = A^2(x - 3y)$

(3)

Total Marks: 25