(1) Find the values of $x$, $y$ and $z$.

(2) The rectangle $ABCD$ is shown below.

$AB = 7\text{ cm}$, $BC = 4\text{ cm}$, and $\angle BCD = 16^\circ$.

Find the area of $ABCD$.

(3) The triangle $PQR$ is shown below.

$PQ = 8\text{ m}$, $\angle QPR = 140^\circ$.

Find the length of $PR$.

(4) In the diagram below $AB = 7\text{ cm}$, $DE = 8\text{ cm}$ and $\angle ACB = 60^\circ$.

Given that the lines $AC$ and $DE$ are perpendicular, find the area of the shaded scalene triangle below.

(5) Given that $\angle ACB = 55^\circ$, find the length $AB$. Give your answer in cm.

(You must not use a ruler!)

(6) In the triangle below angle $ABC = 4p - 10$ and angle $BAC = 5p + 10$.

Given that $AB = 10\text{ cm}$, find the length of $AC$.

(7) In the diagram below the area of the square $ABDE$ is $16\text{ m}^2$.

Given that $1.5 \angle EDC = \angle DBC$, find the size of the angle $DBC$.

(8) Fred starts from home and walks 5km north before stopping. He then faces east and walks for 6km before stopping again.

(a) Find out how far Fred is away from his starting point after his second stop.

(b) Calculate the bearing Fred is on from his starting point after his second stop.