

HW #9 Example - Area & the Ambiguous Case

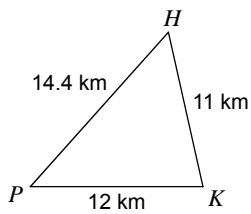
State the number of possible triangles that can be formed using the given measurements.

1) $m\angle A = 79^\circ$, $c = 35$, $a = 4$

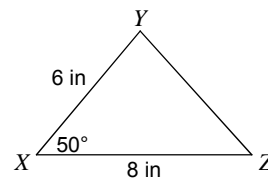
2) $m\angle C = 118^\circ$, $b = 12$, $c = 41$

Find the area of each triangle to the nearest tenth.

3)



4)



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1) $m\angle A = 79^\circ$, $c = 35$, $a = 4$

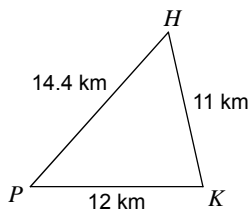
None

2) $m\angle C = 118^\circ$, $b = 12$, $c = 41$

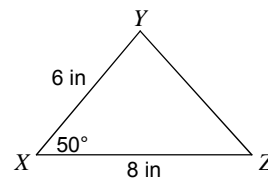
One triangle

Find the area of each triangle to the nearest tenth.

3)

 64.4 km^2

4)

 18.4 in^2

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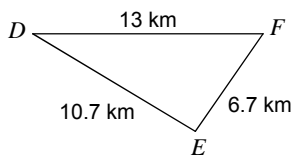
State the number of possible triangles that can be formed using the given measurements.

1) $m\angle B = 38^\circ$, $a = 34$, $b = 25$

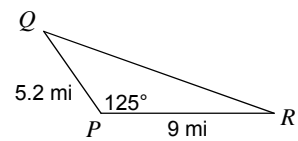
2) $m\angle A = 68^\circ$, $c = 19$, $a = 6$

Find the area of each triangle to the nearest tenth.

3)



4)



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1) $m\angle B = 38^\circ$, $a = 34$, $b = 25$

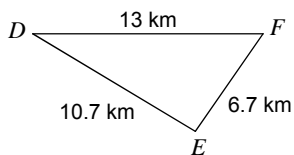
Two triangles

2) $m\angle A = 68^\circ$, $c = 19$, $a = 6$

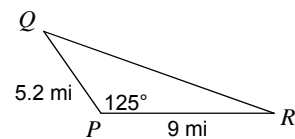
None

Find the area of each triangle to the nearest tenth.

3)

35.8 km²

4)

19.2 mi²

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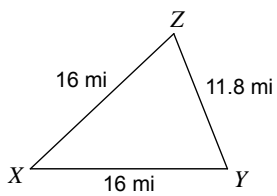
State the number of possible triangles that can be formed using the given measurements.

1) $m\angle C = 88^\circ$, $c = 14$, $b = 9$

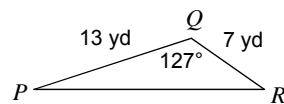
2) $m\angle C = 62^\circ$, $b = 17$, $c = 12$

Find the area of each triangle to the nearest tenth.

3)



4)



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State the number of possible triangles that can be formed using the given measurements.

1) $m\angle C = 88^\circ$, $c = 14$, $b = 9$

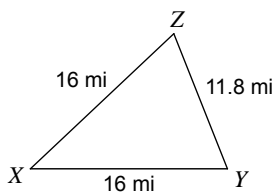
One triangle

2) $m\angle C = 62^\circ$, $b = 17$, $c = 12$

None

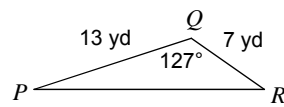
Find the area of each triangle to the nearest tenth.

3)



87.7 mi²

4)



36.3 yd²