

# Nederlandse Wiskunde Olympiade voor Bedrijven



vrijdag 23 januari 2015

- Available time: 25 minutes.
- For this “uitsmijter” only an answer is required, no calculation or proof. A correct and complete answer is worth 10 points. For an answer that is not complete or not completely correct you may also get some points.
- Formula sheets and calculators are not allowed. You can only use a pen, compass, ruler or set square and of course your mental skills.
- Good luck!

For the contest managers: Score:

## Uitsmijter

Find all triples  $(x, y, z)$  of real numbers that satisfy the equations

$$\begin{aligned}x^2 + y^2 + 4z^2 &= 6y - 4, \\2xy - 4xz + 4yz &= y^2 + 5.\end{aligned}$$

Answer:

Name:

Company: