

Transition

8 maximumscore 4

- Er geldt $(\frac{1}{2}b)^2 + (h-r)^2 = r^2$ 1
- Hieruit volgt $\frac{1}{4}b^2 + h^2 - 2hr + r^2 = r^2$ 1
- Dit geeft $\frac{1}{4}b^2 + h^2 = 2hr$ 1
- Hieruit volgt $r = \frac{\frac{1}{4}b^2 + h^2}{2h}$ (dus formule 1 is juist) 1

9 maximumscore 3

- $(1,63 = \frac{\frac{1}{4}b^2 + h^2}{2h}, \text{ dus } 2h \cdot 1,63 = \frac{1}{4}b^2 + h^2$ 1
- $b^2 = 13,04h - 4h^2, \text{ dus } b = \sqrt{13,04h - 4h^2}$ 1
- Hieruit volgt $b = 2\sqrt{3,26h - h^2}$ (dus $p = 2$ en $q = 3,26$) 1

of

- $(1,63 = \frac{\frac{1}{4}b^2 + h^2}{2h}, \text{ dus } 2h \cdot 1,63 = \frac{1}{4}b^2 + h^2$ 1
- $b^2 = 4 \cdot (2h \cdot 1,63 - h^2), \text{ dus } b = \sqrt{4 \cdot (2h \cdot 1,63 - h^2)}$ 1
- Hieruit volgt $b = 2\sqrt{3,26h - h^2}$ (dus $p = 2$ en $q = 3,26$) 1

of

- $(r = \frac{\frac{1}{4}b^2 + h^2}{2h}, \text{ dus } 2hr = \frac{1}{4}b^2 + h^2$ 1
- $b^2 = 8hr - 4h^2, \text{ dus } b = \sqrt{8hr - 4h^2}$ 1
- Hieruit volgt $b = 2\sqrt{2rh - h^2}, \text{ dus } b = 2\sqrt{3,26h - h^2}$ (dus $p = 2$ en $q = 3,26$) 1