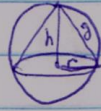


3.3d
8



$$r^2 + h^2 = g^2$$

$$(h-d)^2 + h^2 = (h+d)^2$$

$$h^2 - 2hd + d^2 + h^2 = h^2 + 2hd + d^2$$

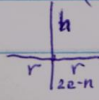
$$h^2 = 4hd$$

$$\frac{h^2}{h} = 4d \quad \rightarrow \quad r = \frac{3}{4}h$$

$$r = h - d$$

$$g = h + d$$

קוטר הנגזר מקוטר התחתון וזכורו חתך השריף (המסומן ב-2) ופירוקו...



$$(2R-h)h = r^2 = \left(\frac{3}{4}h\right)^2 = \frac{9}{16}h^2$$

$$2R-h = \frac{9}{16}h \rightarrow 2R = \frac{25}{16}h \rightarrow h = \frac{32R}{25}, \quad r = \frac{3}{4}h = \frac{24}{25}R$$

$$g = 5d = \frac{5}{4}h = \frac{8R}{5}$$